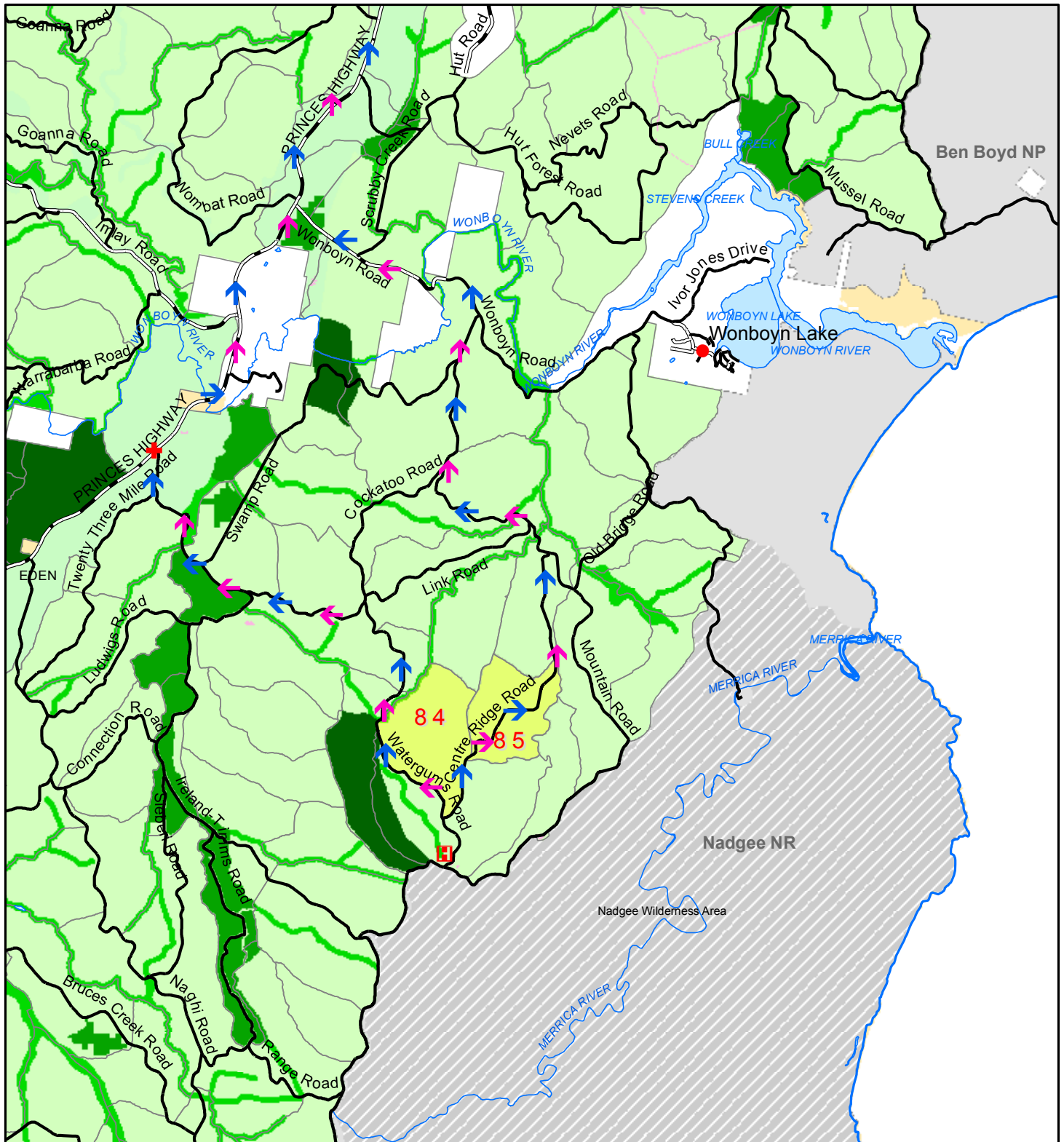
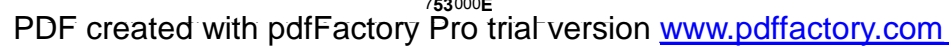


LOCALITY MAP

Compartments 84 & 85
 State Forest: Nadgee No:125
 EDEN IFOA EDEN MANAGEMENT AREA
 Scale: 1:100,000



Sealed Road	State Forest	National Parks	Emergency Meeting Point
Major Forest Road	Planning Unit	Formal Reserve	Helicopter Landing Site
Minor Forest Road	Vacant Crown Land	Informal Reserve	Evacuation Route
Major Rivers	Freehold	Water	Haulage Route
Towns & Localities	NPWS Declared Wilderness		



Prepared By: Megan Costello

PA Harvest Plan Operational Map

Compartment: 84 & 85

State Forest: Nadgee No: 125

Eden IFOA - Hardwood Forests

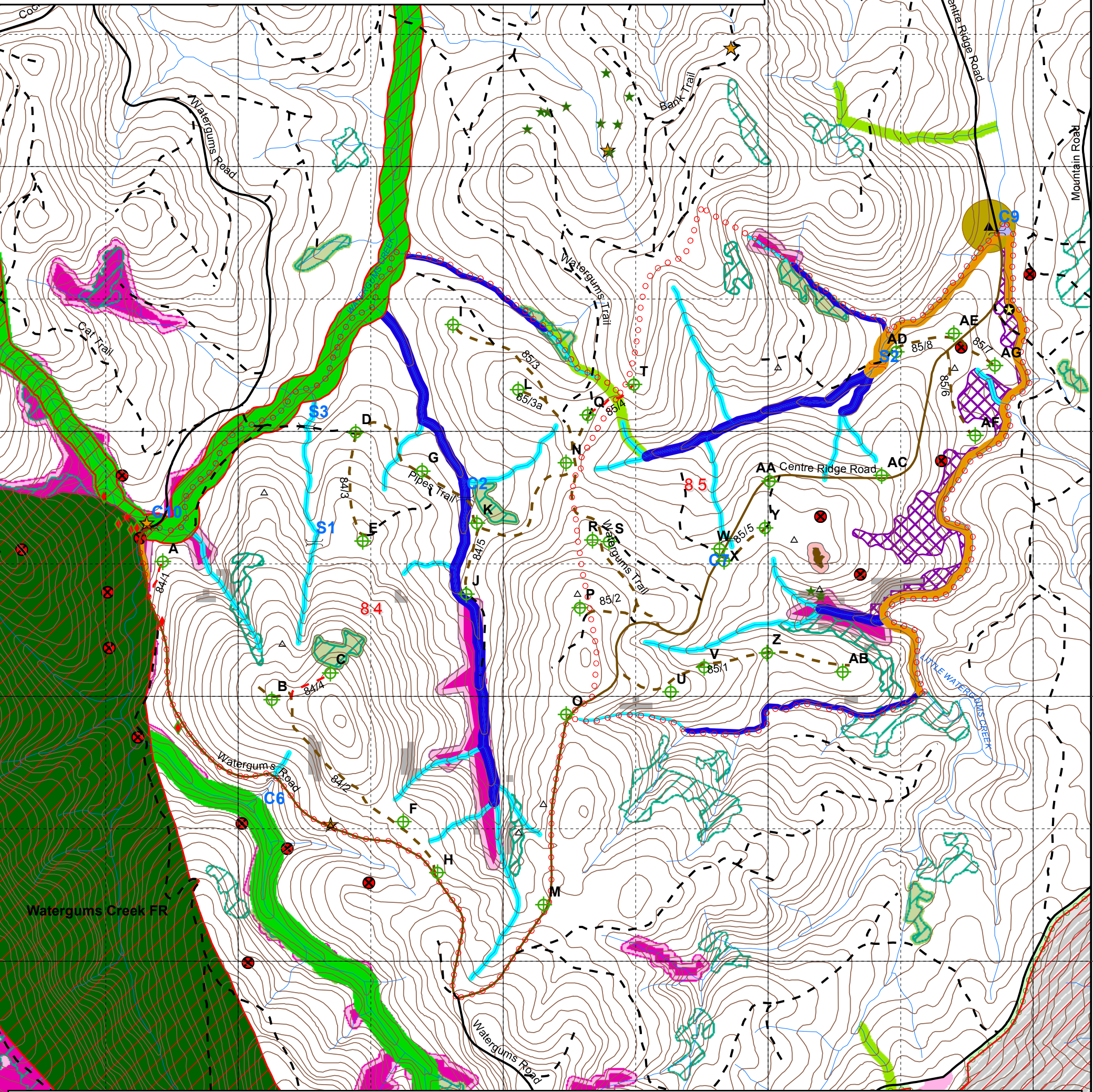
Map Sheet: Narrabarba 8823-2N

Version: 2

PLANNING SUPERVISOR APPROVAL

APPROVED: LEE BLESSINGTON

DATE: 11 / 2 / 15



LEGEND

BOUNDARIES

- State Forest Boundary
- Compartment Boundary

ROADS

- Major Forest
- Minor Forest
- EPL Standard Existing (Major)
- EPL Standard Existing (Minor)
- EPL Licenced (New Construction)

DUMPS & CROSSINGS

- Loading Bay/Turning Circle
- New Crossing
- Existing Crossing

DRAINAGE

- Mapped LIC Drainage

MAP FEATURES

- Rocky Terrain
- NPWS Declared Wilderness
- National Park Estate

NON HARVEST AREA

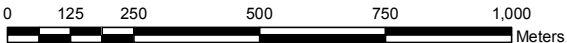
- Special Protection (FMZ 1)
- Harvesting Protection (FMZ 3A)
- Special Prescription (Zone 3B)
- Non Forest Use (FMZ 7)
- Ridge & Headwater Habitat (40m)
- Probable Rainforest & Exclusion Zone (20m)
- Probable Heath & Exclusion Zone (10m)
- Owl Landscape
- Southern Brown Bandicoot Habitat (Indicative)
- Slopes >30 (IHL 4)
- Probable Rock & Exclusion Zone (20m)
- Wedge-tailed Eagle Nest Exclusion Zone (100m)
- Long-nosed Potoroo Retention Area

FAUNA FEATURES

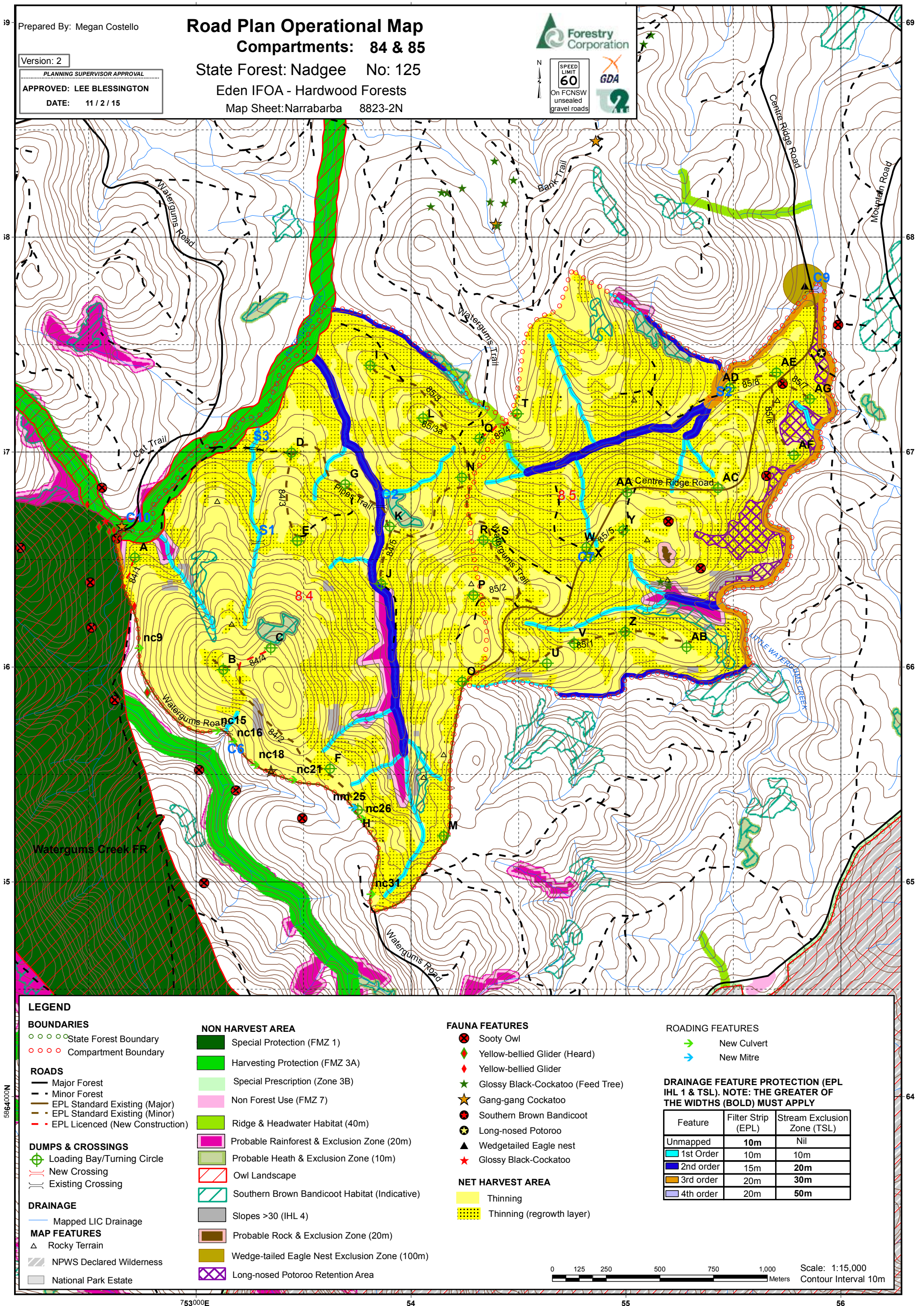
- Sooty Owl
- Yellow-bellied Glider (Heard)
- Yellow-bellied Glider
- Glossy Black-Cockatoo (Feed Tree)
- Gang-gang Cockatoo
- Southern Brown Bandicoot
- Long-nosed Potoroo
- Wedgetailed Eagle nest
- Glossy Black-Cockatoo

DRAINAGE FEATURE PROTECTION (EPL IHL 1 & TSL). NOTE: THE GREATER OF THE WIDTHS (BOLD) MUST APPLY

Feature	Filter Strip (EPL)	Stream Exclusion Zone (TSL)
Unmapped	10m	Nil
1st Order	10m	10m
2nd order	15m	20m
3rd order	20m	30m
4th order	20m	50m



Scale: 1:15,000
Contour Interval 10m



Prepared By: Megan Costello

Harvest Plan Forest Type Map

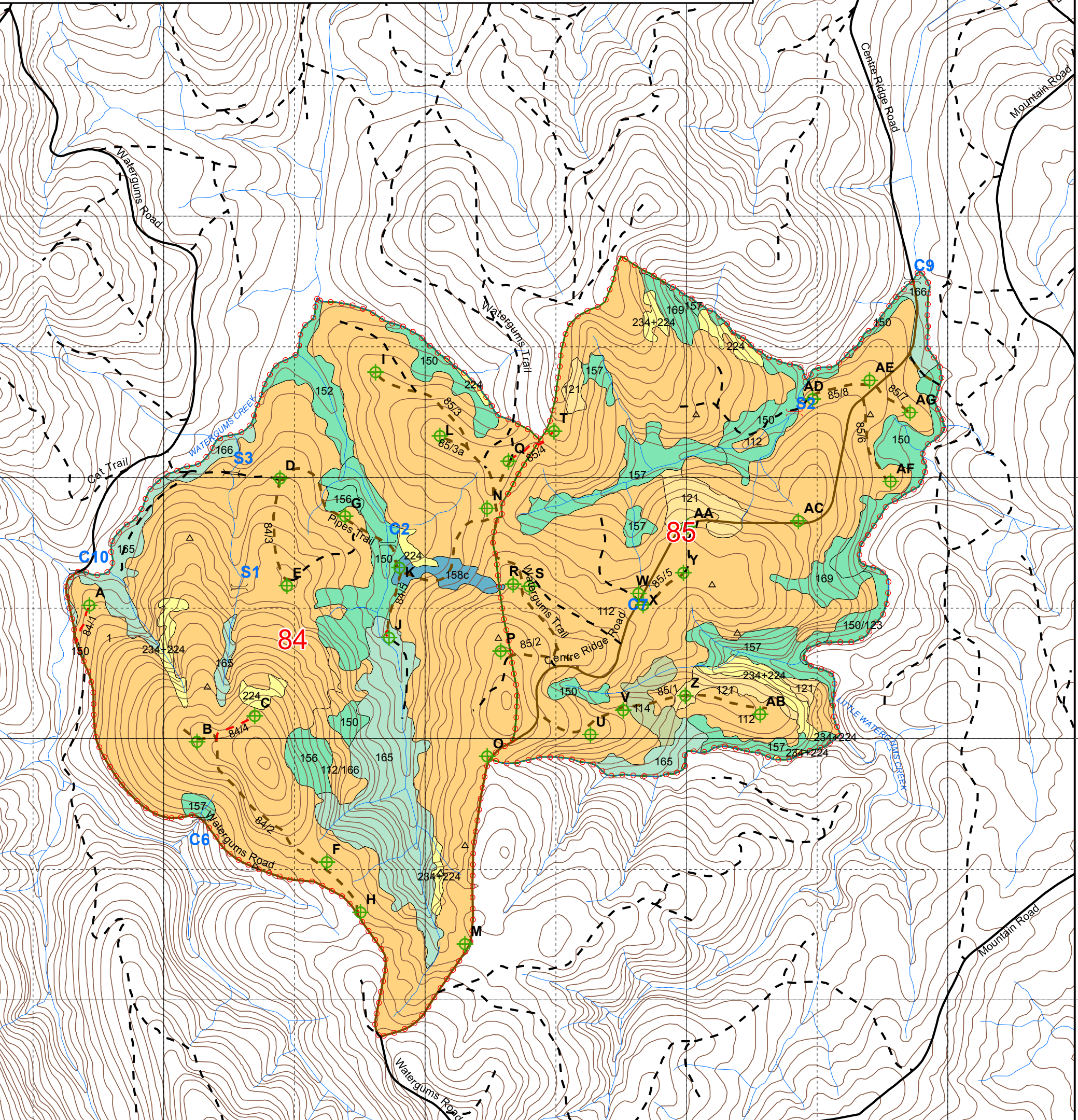
Compartment: 84 & 85

State Forest: Nadgee

No: 125

EDEN - IFOA

Map Sheet: Narrabarba 8823-2N



LEGEND

BOUNDARIES

○ ○ ○ Compartment Boundary

ROADS

— Major Forest
- - Minor Forest
— EPL Standard Existing (Major)
- - EPL Standard Existing (Minor)
- - EPL Licenced (New Construction)

DRAINAGE

— Mapped LIC Drainage

DUMPS & CROSSINGS

⊕ Loading Bay/Turning Circle
— New Crossing
— Existing Crossing

MAP FEATURES

△ Rocky Terrain

BROAD FOREST TYPE

Type 112 Silvertop Ash
Type 114 Silvertop Ash - Stringybark
Type 121 Blueleaved Stringybark
Type 150 Messmate
Type 152 Messmate - Gum
Type 156 Brown Barrel / Messmate - Ash
Type 157 Yellow Stringybark - Gum
Type 158 Southern Blue Gum
Type 165 Gully Peppermint
Type 166 River Peppermint
Type 169 Yellow Stringybark
Type 218 Forestry Plantations
Type 224 Scrub

Broad Forest Types

Broad Forest Types	Gross Ha.
112 - Silvertop Ash	383.5
112/166 - Silvertop Ash / River Peppermint	5.1
114 - Silvertop Ash - Stringybark	3.8
121 - Blueleaved Stringybark	9.8
150 - Messmate	31.8
150/123 - Messmate / Coastal Stringybark	2.5
152 - Messmate - Gum	5.8
156 - Brown Barrel / Messmate - Ash	4.5
157 - Yellow Stringybark - Gum	21.3
158c - (blank)	3.0
165 - Gully Peppermint	37.4
166 - River Peppermint	4.5
169 - Yellow Stringybark	5.9
224 - Scrub	4.0
234+224 - Blackbutt / Flooded Gum / Red Mahogany	7.2

0 125 250 500 750 1,000 Meters

Scale: 1:15,000
Contour Interval 10m

753000E

54

55

56

Prepared By: Megan Costello

Harvest Plan Indicative Habitat Map

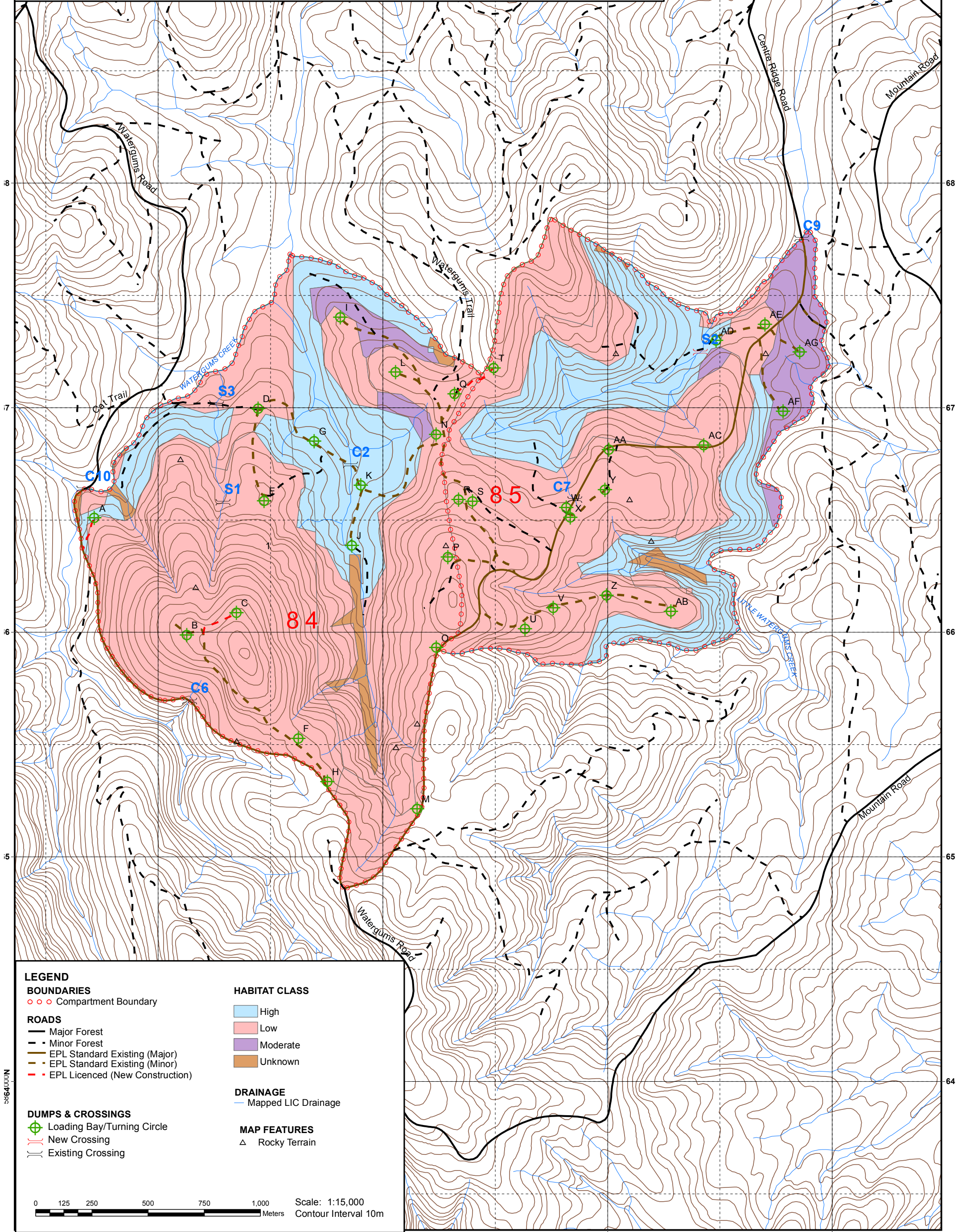
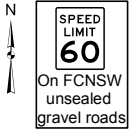
Compartment: 84 & 85

State Forest: Nadgee

No: 125

EDEN - IFOA

Map Sheet: Narrabarba 8823-2N



LEGEND

BOUNDARIES

○ ○ ○ Compartment Boundary

ROADS

- Major Forest
- - Minor Forest
- EPL Standard Existing (Major)
- - EPL Standard Existing (Minor)
- - EPL Licenced (New Construction)

DUMPS & CROSSINGS

- ⊕ Loading Bay/Turning Circle
- New Crossing
- Existing Crossing

HABITAT CLASS

- High
- Low
- Moderate
- Unknown

DRAINAGE

- Mapped LIC Drainage

MAP FEATURES

- △ Rocky Terrain

0 125 250 500 750 1,000 Meters

Scale: 1:15,000
Contour Interval 10m



HARDWOOD FORESTS- EDEN IFOA HARVESTING PLAN

Nadgee State Forest – Compartments 84 & 85

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 Eden apply to this operation.

Prepared By: Harvest Planner	Megan Costello	Approved By: Planning Supervisor	Lee Blessington
Signature	Megan Costello	Signature	Lee Blessington
Date	11/2/15	Date	11/2/15

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, and Roding.

Description of Proposal

Harvesting of hardwood forest

Thinning of Regrowth Hardwood Forest:

Overstocked advanced regrowth stands originating from past logging activities and wildfire events will be mechanically thinned under site specific silvicultural regimes aimed at retaining the highest quality future sawlogs. Thinning reduces the number of competing stems in a stand and concentrates the growth potential onto the remaining crop trees. This process will maintain the uniform age structure that characterises regrowth forests.

This operation will be licensed under the EPL with notification sent to the regulatory authorities as per clause 23 of Integrated Forestry Operations Approval (IFOA).

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

Attachment 2: Roding plan prescribes roding requirements for this harvesting operation.

Abbreviations used in this plan

PA = Production Assistant, PtS= Protection Supervisor, HS = Harvesting Supervisor, RC = Rooding Coordinator, IFOA = Integrated Forestry Operations Approval.

Area Identification and Yield Estimates

State Forest	Compartment/s	Coupe/s	IFOA Region	Management Area	Certification
Nadgee	84	n/a	Eden	Eden	AS4708:2007 ISO 14001
Nadgee	85	n/a	Eden	Eden	AS4708:2007 ISO 14001

	Cpt 84	Cpt 85	Total
Plan Compartment ID	21840	21841	NA
Gross Area (ha)	293.7	236.3	530.0
Net Harvest Area (ha)	260.8	205.3	466.1
Estimated Yield Pulp (t)	33,900 t	24,428 t	58,328 t
Estimated Yield Sawlog (m3)	0 m3	0 m3	0 m3

Slope Classes (percent of harvest area)

Slope Class	Cpt 84 % of harvest area	Cpt 85 % of harvest area
0-20°	80.1	87.1
20-25 °	14.7	8.7
25-30 °	4.1	2.9



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.	Yes / No	
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:</p> <p>From Compartment 84: north via Watergums Road and Cockatoo Road to Ireland-Timms Road onto Princes Hwy turning right onto Edrom Road (100 km/hr). The intersection of Ireland-Timms Road and Princes Hwy 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>From Compartment 85: north via Centre Ridge Road and Mountain Road to Wonboyn Road onto Princes Hwy turning right onto Edrom Road (100 km/hr). The intersection of Mountain Road and Wonboyn Road 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>Road intersections outside the control of FCNSW are not covered by this plan or any FCNSW Traffic Control Plan. Haulage contractors must abide by RTA road laws and standard operating procedures in relation to haulage routes outside the control of FCNSW.</p> <p>Dust, noise and school bus routes Dust and noise – Where log haulage routes pass close to rural housing along natural surface/gravel roads dust and noise must be minimised to the greatest extent practicable. Trucks should reduce speed, restrict use to daylight hours and minimise the use of engine brakes through these areas. School bus route - Wonboyn road is used by school buses 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 school bus 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. Hazardous or dead trees	Refer to FCNSW operational safety standard OSS010. 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 Contractor is responsible for implementing control strategies during harvesting.		
3. Overhead hazards associated with dumps	Refer to FCNSW operational safety standard OSS010. Assess overhead hazard within two tree lengths of the dump. Assess risk, & if necessary remove hazard or relocate dump site. Contractor is responsible for implementing control strategies during harvesting.		
4. 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.		
5. Trucks colliding with oncoming school buses on Wonboyn Road weekdays 7:30-8.30am and 3:30-4:30 pm.	Use UHF channel 3 (channel used by school buses) whilst travelling along Wonboyn Road. When approaching corners communicate trucks location and/or direction of travel to alert bus drivers.		

- **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: Telstra	Satellite: N/A
GPS Lat/Long: 37° 19' 26.502" S/149° 51' 49.506" E		MGA: 753748E 5865334N	Datum: GDA 94 Zone: 55
Location description: Loading Bay/Turning Circle H (Watergums Road)			
Emergency meeting point for ambulance / police (refer to attached locality map)			
GPS Lat/Long: 37° 16' 8.405" S / 149° 48' 12.865" E		MGA: 748631E 5871555N	Datum: GDA 94 Zone: 55
Location description: Intersection of Princes Hwy and Ireland-Timms Road.			
Helicopter landing place (refer to attached locality map)			
GPS Lat/Long: 37° 20' 4.855" S / 149° 51' 55.393" E			
Location description: Intersection of Watergums Road and Mountain Road.			
Procedures to obtain ambulance assistance			
<ol style="list-style-type: none"> 1. Dial 000 2. If there is no mobile coverage, dial 112 (which will work on any mobile phone system). 3. If no response on 112: <ul style="list-style-type: none"> • use a radio link (TARA, be discrete with personal information) • move to an area with mobile coverage • find a landline • use another network (e.g. a contractor's VHF radio) 		<p>Contact nearest Forestry Corporation office on:</p> <p>Channel: 247</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: Nadgee Nearest town or locality: Kiah Nearest ambulance station: Eden	
3. Address?		Ireland-Timms Road	
4. Nearest road junction/cross street?		Ireland-Timms Road and Princes Highway	
5. Local government area?		Bega Valley	
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 Eden head south on the Princes Highway travel approx. 34km to intersection with Ireland-Timms Road (on left).			
8. 4WD ambulance required N		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

Compartment 84

Year	1951	1975	1980	1996	2003	2004	2008	2009
TSI	X	X	X	X	X	X	X	X
HR Burning	X	X	X	Ö	Ö	Ö	Ö	Ö
Wildfires	Ö	X	Ö	X	X	X	X	X
Logging m ³	X	26963	X	X	X	X	X	X

Ö - applies, X – not applicable

Compartment 85

Year	1951	1975	1980	2003	2008	2009
TSI	X	X	X	X	X	X
HR Burning	X	X	X	Ö	Ö	Ö
Wildfires	Ö	X	Ö	X	X	X
Logging m ³	X	21462	X	X	X	X

Ö - applies, X – not applicable

Cmpt No.	Indicative Thinnable Area (ha)	Pre-thinning			Removed			Post-thinning	
		Stock (stems/ha)	B.A. (m2/ha)	Vol/Ha (m3/ha)	Stock (stems/ha)	B.A. (m2/ha)	Vol/Ha (m3/ha)	Stock (stems/ha)	B.A. (m2/ha)
84	260.8	1406	55.6	355.9	1156	28.8	172.0	250	26.8
85	205.3	1178	63.2	404.4	928	29.6	164.9	250	33.6

Source: Based on Operational Inventory Data 1997 [Reden].

Silvicultural Planning

Compartments 84 and 85 were harvested under a modified shelterwood system in 1975. Combined with a wildfire event in 1980, this has resulted in stands of even-aged advanced regrowth with scattered mature and overmature individual trees. The regrowth ranges from 102mm to a maximum of 370mm in diameter, 12-28m in height and is highly stocked.

The species mix is comprised of silvertop ash and stringybarks with messmate and gully peppermint in the gully and riparian areas.

The even-aged stands of advance regrowth described above will be thinned with the aim of retaining the highest quality future sawlogs and reducing the number of competing stems in the stand to concentrate the growth potential onto the remaining trees.

Harvesting Prescription

Stand type	% of net area	Area (refer to HPOM for details)	Treatment (% INT, THIN)
Regrowth (even aged)	100%	All of cpts 84 & 85	<ul style="list-style-type: none"> Thinning from below. Refer to Standard Harvest Planning Conditions for more detail.

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

IFOA Limits

The thinning harvesting operation is in accordance with IFOA Part 1 Condition 5 (6) and Part 5 (1).

The PA will ensure that TSL tree retention prescriptions are met concurrent with harvesting operations.

Special Requirements**Non-harvest areas**

The HPOM indicates the non-harvest areas in the compartments, as detailed in the legend. Harvesting disturbance is not permitted in non-harvest areas unless authorised by the Planning Supervisor.

Noxious Weeds/Disease/Pests Hygiene Requirements

Compartments 84 and 85 are within Bega Valley/Cooma-Monaro 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 BegaValley/Cooma-Monaro 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 compartments.

Rocky Terrain

Rocky terrain occurs within the net planned area. All rocky terrain shown on the HPOM was assessed at the planning stage and is unlikely to meet the definition of a rocky outcrop or cliff. PA will continue to conduct on the ground mark-up and searches and report back to foresters/ecologist any feature requiring further investigation.

Forest Management Zoning

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

FMZ 3A – Harvesting and harvesting machinery are not permitted in this area. Prescribed burning is only permitted in this area 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).

IFOA Required Approval of Forestry Activities

Approvals have not been obtained for snig track construction and/or use, road construction, road re-opening, routine road maintenance and log haulage in FMZ 3A. If the PA identifies the need for harvesting related activities to occur within FMZ 3A during the operation, the Harvest Planner must be contacted to seek Planning Supervisor approval.

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 PA to identify any exclusion areas which will need to be crossed during harvesting. The PA should then contact the Harvest Planner to obtain the necessary approval.

Cultural Heritage

Cultural Heritage - All relevant representatives have been consulted &/or inspected Compartments 84 and 85.

Flora and Fauna

Refer to TSL Booklet for Conditions

Mark-Up Conditions

During the pre-harvest mark up the PA must search for and record threatened species habitat features consistent with Conditions 5.2 and 8.6 of the TSL. Searches for threatened species features must be conducted within that portion of the net planned area where harvesting will occur, and within 50 metres outside this area (e.g. HCVOG, etc) (conditions 5.1, 5.2 of the TSL).

Where any of these features are found, the feature must be recorded, the Harvesting Plan, including the HPOM, must be amended accordingly and the appropriate condition applied.

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: **Glossy Black-Cockatoo** (*Calyptorhynchus lathami*), **Eastern False Pipistrelle** (*Falsistrellus tasmaniensis*), and **Gang Gang Cockatoo** (*Callocephalon fimbriatum*).

Tree Retention-Non-Regrowth Zone

The non-regrowth zone applies to the entire net harvest area. The PA is to mark as per Condition 5.6 of the TSL, in conjunction with indicative Habitat Quality Class Map and on ground assessment. Where the density of habitat trees specified in the table are not available, retain the existing habitat trees plus additional trees of the largest dbhob to meet the required retention rate.

Habitat Quality	Hollow Bearing Tree/ 2ha	TSL Condition	Recruitment Trees/ 2ha	TSL Condition	Protection of Retained Trees	TSL Condition (only if safe)	Dead Standing Tree	TSL Condition	Significant Food Resource*	TSL Condition
High	12	5.6g)i	12	5.6h)i	0	5.6l	0	5.6j	0	5.6 k
Medium	8	5.6g)ii	8	5.6 h)ii	0	5.6 l	0	5.6j	0	5.6 k
Low	4	5.6g)iii	4	5.6 h)iii	0	5.6 l	0	5.6j	0	5.6 k

0 - Condition applies

*3 Glossy black cockatoo feed trees occur within compartment 85 at the 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	55	755162	5866397	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	55	755200	5866384	Marked with orange tape
Glossy Black-Cockatoo	Feed tree	55	755196	5866375	Marked with orange tape

General exclusion zones

General exclusions as listed below are shown on the HPOM.

Feature/Condition	TSL cond'n	Occurs within Planning Unit
Rainforest	5.4	Rainforest (RF) is mapped within the compartment(s) and is displayed on the HPOM. PA's must mark the RF exclusion zone as mapped. Unmapped RF must also be protected #.
Riparian Protection Zones	5.7	Yes
Ridge & Headwater Habitat	5.8	Yes (40m total width)
Wetlands	5.9	Has been assessed & is unlikely to occur in the field. May require further investigation#.
Heath and Scrub	5.10	Has been assessed as a risk that it may occur in the field. May require further investigation#.
Rocky Outcrops and Cliffs	5.11	Has been assessed as a risk that it may occur in the field. May require further investigation#.
Endangered Ecological Community	NA	Has been assessed & is unlikely to occur in the field. May require further investigation#. Removal of timber, harvesting machinery and post harvest burning must be excluded from all areas of EEC.

#PA 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 CPTS 84 & 85	Licence conditions under the TSC Act
Threatened Frog General Protection Measures	No	5.12
Bird Nest and Roost Site Protection	No*	5.13 *Please refer to Species and Site Specific Prescription below.
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

Contractors and supervisory staff must immediately report any sightings of Schedule 1 and 2 species to the PS. The Harvesting Plan must be amended to include additional prescriptions if necessary. If any species requiring a site specific prescription in accordance with condition 1.2 of the TSL are detected in or within 100m of the compartment boundaries cease operations immediately & Inform PS.

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 CPTS 84 & 85	Licence conditions under the TSC Act or relevant Site-specific prescription
Sooty Owl <i>Tyto tenebricosa</i>	Yes: Sooty Owl: 84 & 85	6.3 Owl Landscape Exclusion Zones occur in compartment 84 (Refer to HPOM).
Southern Brown Bandicoot <i>Isodon obesulus</i>	No	6.5A & Species Management Plan
Long-nosed Potoroo <i>Potorous tridactylus</i>	Yes: 85	6.7 Long-nosed Potoroo retained tree buffer is shown on the HPOM. Harvesting and burning must be excluded from these areas.
Koala <i>Phascolarctos cinereus</i>	No	6.11
Yellow-bellied Glider <i>Petaurus australis</i>	Yes: 84	6.13

Additional Site-Specific Flora and Fauna Prescriptions for Non-Threatened Species

Species	Records in CPTS 84 & 85	Additional protection measures for non-threatened species
Wedge-tailed Eagle <i>Aquila audax</i>	No	100 m exclusion zone around the nest tree. If possible, thin this north-east section of compartment 85 outside of the breeding season.

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

Site-specific EPL Conditions

Elements	Conditions
Unmapped Drainage Lines	EPL applies
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	1
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

Log Dump Location

33 Loading Bay/Turning Circles are indicated on the HPOM. Field location of Loading Bay/Turning Circles must utilise the most level site available consistent with the location indicated on the HPOM. Inherent hazard level 1 Conditions 26, 27, 30, and 33 of Schedule 4 of the EPL must apply. Loading Bay/Turning Circle J is located outside of the 2nd order Stream Exclusion Zone on a historic dump site.

Expected Felling/ Extraction & Loading Method

The expected felling method is mechanical, extraction and loading method is by forwarder.

Drainage Feature Crossings

Three snig track crossings (S1, S2, and S3) and 5 road crossings (C2, C6, C7, C9 and C10) are approved for use on drainage features. (Refer to HPOM). Crossing details are contained in Attachment 2 of this Plan. Snig track crossing details are provided below:

Crossing Name & Coordinates	Crossing details	Required Works
S1-existing Easting 753295 Northing 5866591	<p>Mapped 1st order drainage line, occurs as a drainage line in the field.</p> <p>Existing stable gully stuffer crossing</p> <p>Not class 1 or 2 Fisheries Licence aquatic habitat.</p> <p>Class 4 fish passage class: unlikely fish habitat.</p>	<p>Remove heavy vegetation.</p> <p>Maintenance work should minimise disturbance and clearing and be at right angles to the flow unless an angled approach results in reduced disturbance.</p> <p>Armour depression with rock/gravel if required in wet conditions. Install cross banks/rollovers on completion of use within timeframes and spacing's specified in EPL.</p> <p>Upon completion of operations reshape the bed and banks and apply seed and mulch as required to disturbed areas.</p>
S2-new Easting 755428 Northing 5867257	<p>Mapped 3rd order drainage line, occurs as a drainage line in the field.</p> <p>Temporary corduroy causeway crossing.</p> <p>Not class 1 or 2 Fisheries Licence aquatic habitat.</p> <p>Class 3 fish passage class: minimal fish habitat.</p>	<p>Construct temporary corduroy crossing as per EPL.</p> <p>Crossing must comply with FCNSW document <i>"Operating Conditions - Temporary Snig/Extraction Track Slash Crossings of Drainage Features in Native Forest Logging Operations"</i> (attached to this plan).</p> <p>Construction should minimise disturbance and clearing and be at right angles to the flow unless an angled approach results in reduced disturbance.</p> <p>Armour depression with rock/gravel if required in wet conditions. Install cross banks/rollovers on completion of use within timeframes and spacing's specified in EPL.</p> <p>Install silt barrier downstream of crossing.</p> <p>Upon completion of operations; remove structure and apply grass seed and mulch as required to disturbed areas.</p>
S3 – existing Easting 753259 Northing 5867019	<p>Mapped 1st order drainage line, occurs as a drainage line in the field.</p> <p>Existing stable gully stuffer</p>	<p>No construction required.</p> <p>Crossing must comply with FCNSW document <i>"Operating Conditions - Temporary Snig/Extraction Track Slash Crossings of Drainage Features in</i></p>

	(log culvert) Not class 1 or 2 Fisheries Licence aquatic habitat. Class 2 fish passage class: moderate fish habitat.	<i>Native Forest Logging Operations”</i> (attached to this plan). Install cross banks/rollovers on completion of use within timeframes and spacing’s specified in EPL. Install high-vis bunting to avoid snagging on localised failed road edge Install hay bales in the drainage outlets of snig track. Upon completion of operations; apply grass seed and mulch as required to disturbed areas.
--	--	---

Mass Movement

Compartments 84 and 85 are 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 two known gully stuffers on snig track crossings S1 and S3. There are no known log dams or gully stuffers on road crossings in the compartments.

Condition 47 of Schedule 4 of the EPL must apply.

Road Works

The roading and crossing works must be undertaken, by contractor or FCNSW staff, prior to the commencement of harvesting activity in the area served by the road or crossing. The roading plan specifies who is responsible for supervising and paying for the maintenance works.

Within the compartment boundary only roads that are shown on the HPOM as EPL standard or sealed may be used for haulage. **Refer to EPL Schedule 5 – Operating Conditions for Roads.**

Roads within the compartment boundary may be used with PA approval for snigging or extraction provided they are drained to EPL specifications.

Legal Conditions

In 1999, the Commonwealth and NSW Governments signed a Eden Regional Forest Agreement which, among other things, allows for the supply of timber for 20 years from public lands under the following NSW legislation:

- Forestry Act 2012, and
- Forestry & National Park Estate Act 1998

The latter Act provides for the Eden Forest Agreement and Eden Integrated Forest Operations Approval (IFOA), both approved by NSW Government Ministers. This harvest plan is issued under the authority provided within the IFOA.

The IFOA also contains three licences issued under:

- Section 55 of the Protection of the Environment Act 1997 (EPL)
- Threatened Species Conservation Act 1995 (TSL).
- Section 220ZW of the Fisheries Management Act 1994 (FL).

This harvest plan will be managed in the field under:

- Licences issued under the Forestry Act (2012)
- Forest Practices Code part 2 (Timber Harvesting in Native Forests - 1999) and part 4 (Forest Roads and Fire Trails - 1999)
- Standard Harvest Plan Conditions for Hardwood Forest Operations under the IFOA
- FCNSW Corporate Fuel Management Plan 2008.

Harvesting operations must comply with all of the above Licences and the Code.
Further information is available from <http://www.environment.nsw.gov.au/>

Pre Operational Briefing

I acknowledge that I have received a copy of the Harvesting Plan for Compartments 84 and 85 in Nadgee 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 PS or his/her delegate.

Position	Name	Signature	Date

Details to Record in PA Notes

- Dates of commencement and cessation of logging
- Record the commencement and completion of harvesting at each dump
- Record the occurrence of temporary stopping of harvesting at each dump.
- Situations where drainage could not be completed due to saturated soils must be recorded in PA Notes.
- Record the commencement and completion of each construction, upgrading or maintenance of drainage feature crossings by snig tracks or extraction tracks.
- Bi-weekly checks of road drainage structures during haulage operations.
- Record the date of checks, drainage structure compliance and the any repairs required within the specified time period.
- Records of Threatened Flora and Fauna identified during compartment markup.
- Minor variations associated with moving or adding dumps.
- Daily events of importance eg. Instructions to crew, work activity.

Post Harvest Mapping Features Confirmation Checklist

Feature	Planning Updates	Reason (Error/New)	GIS update tool completed?	Harvesting Updates	Comments
Soil Regolith					
Mapped Drainage					
Rainforest					
Rocky outcrops					
Wetlands					
Cultural Heritage					
Existing Roads					
New Roads	Yes	New	Yes		
Heath					
Powerlines etc					
Other (state what it is)					

Snig/Extraction Track Crossing Record

Record the commencement and completion of each construction, upgrading or maintenance of watercourse/drainage line crossings by snig tracks or extraction tracks.

[illegible]

* If soil is not stabilised within 5 days it must be recorded as a non-compliance including the reason why on a Non-Compliance Report.

If soil is saturated, temporary stabilisation must be put in place, and the instance entered into the compartment diary.

**** If track edge clearing exceeds 3 metres, document the reason for field approval in the compartment diary.**

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 1		Week 2		Week 3		Week 4		Week 5		Week 6	
	1st	2 nd	1st	2nd	1 st	2nd	1 st	2nd	1st	2nd	1st	2nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 7		Week 8		Week 9		Week 10		Week 11		Week 12	
	1st	2 nd	1st	2nd	1 st	2nd	1 st	2nd	1st	2nd	1st	2nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Weekly and Bi-weekly inspection

Item Inspected	Insert dates of inspection											
	Week 13		Week 14		Week 15		Week 16		Week 17		Week 18	
	1st	2 nd	1st	2nd	1 st	2nd	1 st	2nd	1st	2nd	1st	2nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Weekly and Bi-weekly inspection
--

Item Inspected	Insert dates of inspection											
	Week 19		Week 20		Week 21		Week 22		Week 23		Week 24	
	1st	2 nd	1st	2nd	1 st	2nd	1 st	2nd	1st	2nd	1st	2nd
Road drainage												
Road sediment controls												
Road causeways												
Road gully stuffers												
Snig gully stuffers												
PA initial												
PA presence												

Comments: record the item number in a box above and comment as required.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

PA Notes

[illegible]

PA Notes (continued)

[illegible]

PA Notes (continued)

[illegible]

PA Notes (continued)

[illegible]

PA Notes (continued)

[illegible]

Clearance Certificate

COMPARTMENTS: 84 and 85

NADGEE STATE FOREST

ToProduction Assistant

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 Roading 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).....
Production Assistant

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 (PA estimate)	Number of AGS gaps created	Comments
Integrated/Modified shelterwood			
Thinning			
Post Harvest Silviculture			

Actual area harvested (record on attached HPOM)

Give reasons for harvestable areas that were not harvested (eg. Too steep, defective timber). Make reference to map.

Post Logging Basal Area sweeps

Dump No#	Sweep 1	Sweep 2	Sweep 3	Sweep 4	Average
				Post BA	Average
				Pre BA	Average
					m ² /ha
					58.9 m ² /ha

Comply with maximum Thinning BA removal of 75%?

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	

ATTACHMENT 2 ROADING PLAN

Summary of Roading Requirements

Feature	Details	Works Required
Existing roads to be used.	13,324m/16	Yes
New roads to be constructed	544m/3	Yes
Existing crossings used	5	Yes
New crossings to be constructed	0	NA
Length of road >10°	287m	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 Roading Coordinator must be recorded and passed onto the PA for completion 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/Crossing Name	Works Required	Date Started	Date finished	Signature
Centre Ridge Road (Length = 4.2km) FCNSW Responsibility	No works required – work completed prior to harvest plan completion RC/PA Comments:			
Watergums Road (Length = 2.46km) FCNSW Responsibility	Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Install 6 new culverts (2 x pipe lengths required) at: E 752736 N 5866088 E 753095 N 5865703 E 753171 N 5865654 E 753273 N 5865544 E 753449 N 5865474 E 753770 N 5865291 E 753814 N 5864943 Install new mitre at:			

	<p>E 753730 N5865345</p> <p>Restore existing mitre drains; check inlets and outlets of existing relief pipes and clean out if necessary. Do not remove vegetation from cut batters.</p> <p>RC/PA Comments:</p>			
<p>Watergums Trail (Length = 916m) <i>Contractor Responsibility</i></p>	<p>Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps or mitre drains as per EPL drainage spacing.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			
<p>84/1 (Length = 150mm) <i>Contractor Responsibility</i></p>	<p>Refer to New Road Construction Form</p> <p>RC/PA Comments:</p>			
<p>84/2 (Length = 897m) <i>Contractor Responsibility</i></p>	<p>Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps, culverts or mitre drains as per EPL drainage spacing.</p> <p>Install drop down flumes and rock dissipaters on culvert outlets as required in section of road passing over slopes > 30 degrees.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			
<p>84/3 (Length = 411m) <i>Contractor Responsibility</i></p>	<p>Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps or mitre drains as per EPL drainage spacing.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			

84/4 (Length = 182m) <i>Contractor Responsibility</i>	Refer to New Road Construction Form RC/PA Comments:			
84/5 (Length = 274m) <i>Contractor Responsibility</i>	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Replace rollovers with rubber flaps, culverts, or mitre drains as per EPL drainage spacing. Reinstate existing mitre drains. RC/PA Comments:			
Pipes Trail (Length = 1206m) <i>Contractor Responsibility</i>	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Replace rollovers with rubber flaps, culverts or mitre drains as per EPL drainage spacing. Reinstate existing mitre drains. RC/PA Comments:			
85/1 (Length = 930m) <i>Contractor Responsibility</i>	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Replace rollovers with rubber flaps, culverts or mitre drains as per EPL drainage spacing. Reinstate existing mitre drains. RC/PA Comments:			
85/1a (Length = 37m) <i>Contractor Responsibility</i>	Refer to New Road Construction Form RC/PA Comments:			
85/2 (Length = 224m)	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to			

<p><i>Contractor Responsibility</i></p>	<p>facilitate truck movements.</p> <p>Replace rollovers with rubber flaps or mitre drains as per EPL drainage spacing.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			
<p>85/3 (Length = 590m)</p> <p><i>Contractor Responsibility</i></p>	<p>Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps, culverts or mitre drains as per EPL drainage spacing.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			
<p>85/3a (Length = 115m)</p> <p><i>Contractor Responsibility</i></p>	<p>Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps, culverts or mitre drains as per EPL drainage spacing.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			
<p>85/4 (Length = 132m)</p> <p><i>Contractor Responsibility</i></p>	<p>Also refer to New Road Construction Form</p> <p>Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps, or mitre drains as per EPL drainage spacing.</p> <p>Reinstate existing mitre drains.</p> <p>RC/PA Comments:</p>			
<p>85/5 (Length = 210m)</p> <p><i>Contractor Responsibility</i></p>	<p>Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains.</p> <p>Clear up to 3m either side of road pavement to facilitate truck movements.</p> <p>Replace rollovers with rubber flaps, or mitre drains as per EPL drainage spacing.</p>			

	Reinstate existing mitre drains. RC/PA Comments:			
85/6 (Length = 332m) <i>Contractor Responsibility</i>	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Replace rollovers with rubber flaps, culverts or mitre drains as per EPL drainage spacing. Reinstate existing mitre drains. RC/PA Comments:			
85/7 (Length = 168m) <i>Contractor Responsibility</i>	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Replace rollovers with rubber flaps, or mitre drains as per EPL drainage spacing. Reinstate existing mitre drains. RC/PA Comments:			
85/8 (Length = 249m) <i>Contractor Responsibility</i>	Remove vegetation. Re-shape and grade road surface. Re-form and clear table drains. Clear up to 3m either side of road pavement to facilitate truck movements. Replace rollovers with rubber flaps, or mitre drains as per EPL drainage spacing. Reinstate existing mitre drains. RC/PA Comments:			
C2 E 753854 N 5886749 <i>Contractor Responsibility</i>	Refer to attached Crossing Form RC/PA Comments:			
C6 E 753145 N 5865690	Clear inlet and outlet of pipe. RC/PA Comments:			

FCNSW Responsibility				
C7 E 754855 N 5866594 FCNSW Responsibility	No works required RC/PA Comments:			
C9 E 755869 N 5867756 FCNSW Responsibility	No works required RC/PA Comments:			
C10 E 7522668 N 5866643 FCNSW Responsibility	No works required RC/PA Comments:			

NEW ROAD CONSTRUCTION**Road Specific Conditions:**

Road Name	Road Length (m)	Max. width of road prism (m)	Max. road grade (length road > 10 degrees?)	Max. ground slope (length road > 30 degrees?)	Estimated Max. height of cut / fill batters (m)	Estimated Max length of batters (m)	Mass movement / dispersible soils	Final road use	Responsibility	Start Date	Finish Date
84/1 Rd	150m	4m	5°	22°	1m	120m	No	Retain	Contractor		
84/4 Rd	182m	4m	11°	16°	0.6m	66m	No	Retain	Contractor		
85/4	212m	4m	9°	6°	NA	NA	No	Retain	Contractor		

General Instructions for road construction:

Features	Road Specifications	Additional instructions / Materials
Type of sediment trapping / soil erosion/ sediment control device to be used during construction	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required.	PA to monitor during road construction and assess requirements.

Recommended road drainage type	Recommend rubber flaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. PA to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL. Trafficable rollovers to be installed upon harvest completion	Rubber flaps during operation. Permanent trafficable rollovers to be installed upon completion of use.
Spacing of road structures to be installed	As per EPL Sch. 5, Section C, Table 1	
Soil erosion / sediment control techniques	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation. Upon harvest completion, logging debris is to be removed from table and mitre drains so they are left in effective working order	Seed & mulch as required
Stabilisation assessment intervals	As per EPL Sch. 5, Clauses 15, 17, 19 & 20	
Drop down & dissipater required	Required where fill batter >1m as per EPL Schedule 5 Clause 36	PA to monitor. Mitres with rock dissipater recommended.
Soil stabilisation techniques of disturbed areas	Seed & mulch as required	

Note: Maintenance works not completed by Roding Coordinator must be recorded and passed on to the PA.

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Roads\Crossing form_81.doc
HP_ED_84_85_15

10/1/15

CROSSING NAME: S1 (mapped DL)

Waterway Classification: Fish Passage Class 4- Unlikely fish habitat

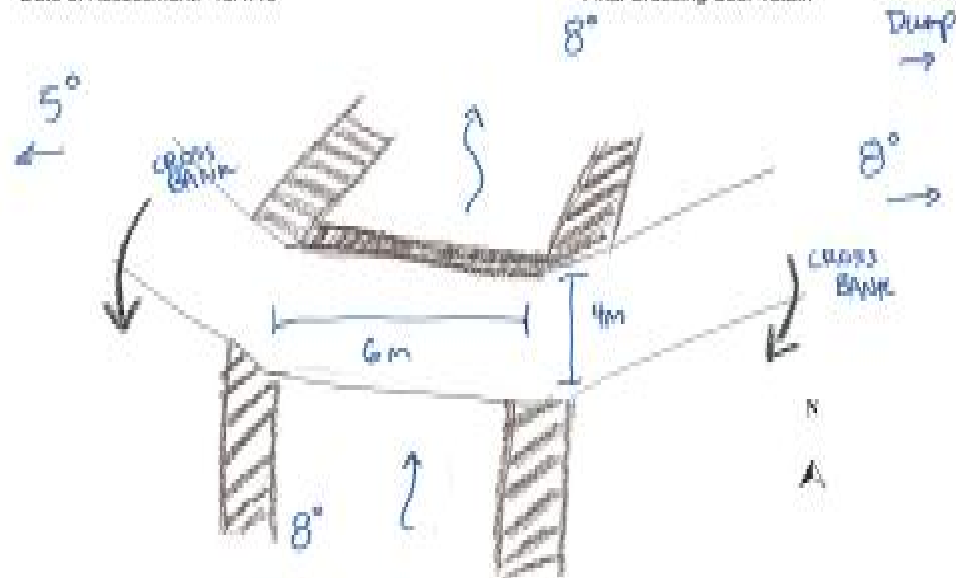
Fisheries Licence Aquatic Habitat: Not class 1 or 2

Assessor's Name: Megan Costello **Crossing Type:** Existing gully stuffer

Features	Works (As per RPL Schedule 8)	Plant/Materials
Structure	Existing stable gully stuffer. Remove heavy vegetation	
Bed and Banks	stable	
Erosion and Sediment Control	Upon completion of operations fill any ruts and apply grass seed and mulch as required to disturbed areas.	forwarder Grass seed mulch
Disposal of excess spoil	Outside SEZ	
Soil Stabilisation within 20m	NA	
Road drainage within 5-20m		
• Type	Install crossbank drainage either side of drainage within 5-20m	forwarder
• outlet control	Existing vegetation	
• table drain checking devices	NA	

Date of Assessment: 15/1/15

Final Crossing Use: retain



Date Work Started: _____

Key

Date Work Finished: _____

→Ru	Rubber strip
→M	Mitre drain
xxx	Roadside clearing
→Ro	Rollover drain
I	Silt Log
	Rock
∩	Seeding
∇	Sediment control
..	Gravel

Soil stabilisation must be completed within 5 days

Record implementation date here: _____

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Roads\Crossing form_S2.doc
HP ED 84 85 13

18/1/13

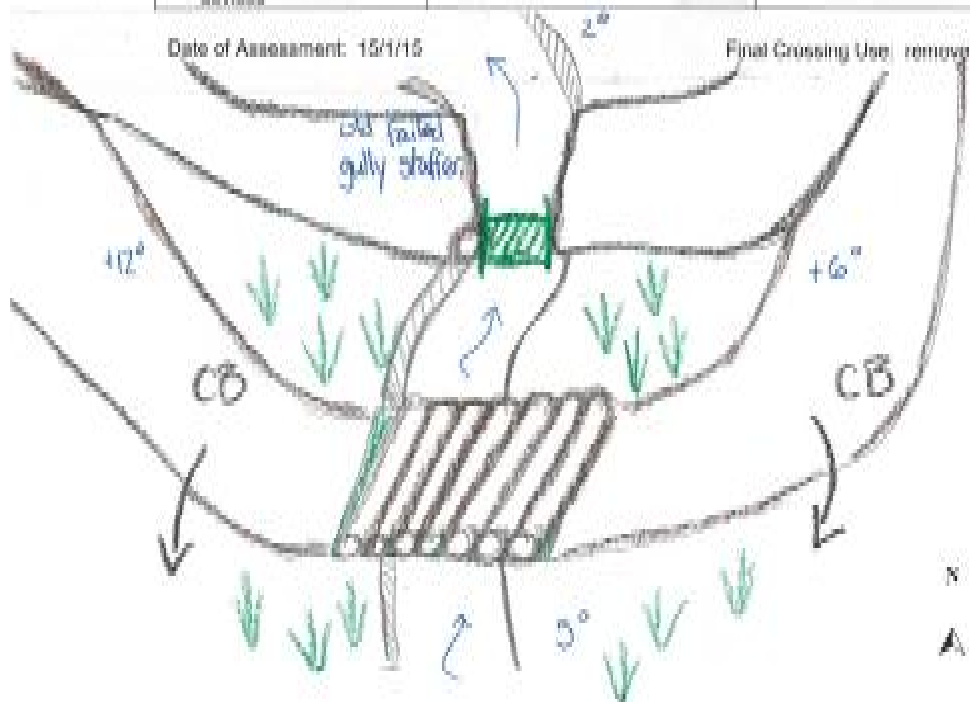
CROSSING NAME: S2 (mapped DL)

Waterway Classification: Fish Passage Class 3- Minimal fish habitat

Fisheries Licence Aquatic Habitat: Not class 1 or 2

Assessors Name: Megan Costello **Crossing Type:** Temporary Corduroy Causeway

Features	Works (As per EPL Schedule 5)	Plant/Materials
Structure	New temporary corduroy causeway to be installed along bed of drainage line	Forwarder corduroy logs geotextile
Bed and Banks	stable	
Erosion and Sediment Control	Install silt fence downstream of crossing Upon completion of operations remove structure and apply grass and mulch to any disturbed areas.	forwarder Grass seed Mulch Silt fence
Disposal of excess spoil	Outside SEZ	
Soil Stabilisation within 20m	NA	
Road drainage within 5-20m		
• Type	Install crossbank drainage either side of drainage within 5-20m Existing vegetation NA	forwarder
• outlet control		
• table drain checking devices		



Date Work Started: _____

Date Work Finished: _____

Soil stabilisation must be completed within 5 days

Record implementation date here: _____

Key

→Ru	Rubber strip
→M	Mitre drain
xxx	Roadside clearing
→Ro	Roller drain
I	Silt Log
vvvvv	Rock
g	Seeding
V	Sediment control
..	Gravel

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Roads\Crossing form_83.doc
HP_ED_84_85_13

10/1/15

CROSSING NAME: 83 (mapped DL)

Waterway Classification: Fish Passage Class 3- Minimal fish habitat

Fisheries Licence Aquatic Habitat: Not class 1 or 2

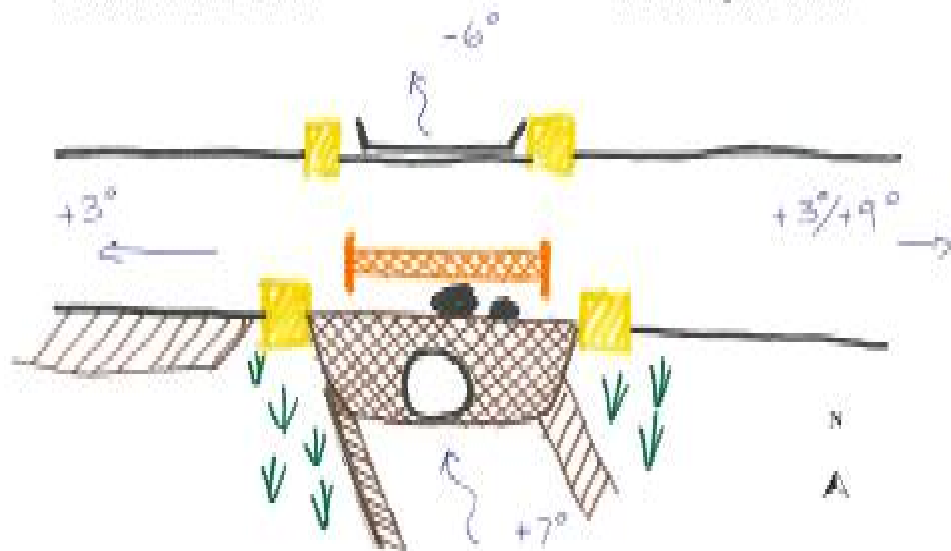
Assessor Name: Megan Costello

Crossing Type: Existing stable gully stuffer

Features	Works (As per EPL Schedule 5)	Plant/Materials
Structure	Use existing stable gully stuffer (log culvert)	Not required
Bed and Banks	Stable. Edge of road is falling at log culvert location (localized)	
Erosion and Sediment Control	Install high-vis fence to avoid extraction on falling portion of road. Avoid angling during wet conditions. Apply grass seed and mulch to disturbed areas upon completion of operations.	Orange bright visibility fence Grass seed Mulch
Disposal of excess spoil	Outside SEZ	
Soil Stabilisation within 20m	NA	
Road drainage within 5-20m <ul style="list-style-type: none"> Type outlet control table drain checking devices 	Install crossbank drainage either side of drainage within 5-20m Existing vegetation Hay bales	forwarder hay bales

Date of Assessment: 15/1/15

Final Crossing Use: remove



Date Work Started: _____

Date Work Finished: _____

Soil stabilisation must be completed within 5 days

Record implementation date here: _____

Key

→Ru	Rubber strip
→M	Mitre drain
xxx	Roadside clearing
→Ro	Rollover drain
I	Silt Log
XXXXX	Rock
w	Seeding
v	Sediment control
g	Gravel

FORESTRY CORPORATION OF NSW-SOUTHERN REGION

Harvest Plan Briefing Form

State Forest	Compartment	Event ID	Date Previous Reliable Survey Expires	EPL Licenced? No/Yes (New road and/or Harvesting)
Nadgee	84	22019	4/2/2017	Yes- Harvesting & New Road Construction
Nadgee	85	22020	4/2/2017	Yes – Harvesting & New Road Construction

Stage of plan at time of briefing (circle applicable): **Draft** **Final**

Name of person carrying out briefing: _____

Position of person carrying out briefing (circle applicable):

Planning Supervisor, Planner, Harvesting Supervisor, Roding Supervisor, Forest Technician, Harvesting Coordinator, Roding Coordinator Other
(specify) _____

Items to be covered by briefing:	Comment
1. Flora & Fauna Site/Species Specific prescriptions.	Southern Brown Bandicoot habitat Glossy Black-Cockatoo (feed trees x 3) Long-nosed Potoroo retention area Wedge-tailed Eagle nest exclusion zone (100m) during breeding season Yellow-bellied Glider (heard and observed)
2. Roding requirements (can include shire and private property road requirements).	13,324m existing roads. 544m new roads (3) to be constructed. 5 existing crossings 3 snig crossings
3. Exclusion zones (eg riparian, FMZ, EEC, ridge & headwater, etc).	Southern Brown Bandicoot habitat Probable Rock and Buffer – boundary of outcrop has been GPS'd and marked with pink ribbon Slopes >30 (IHL 4) Harvesting Protection FMZ 3A overlaps with Owl landscape Ridge and Headwater habitat Probable Heath & exclusion Drainage exclusions Probable Rainforest & exclusion Long-nosed Potoroo retention areas
4. Cultural heritage issues.	Nil CH sites.

5. EPL prescriptions (seasonality restrictions, mass movement, erosion, dispersable soils, site specific prescriptions etc).	IHL 1
6. MEEP, site specific hazards and traffic management sections of the harvest plan clearly explained?	MEEP: Intersection of Princes Hwy and Ireland-Timms Road Helicopter: Intersection of Watergums Road and Mountain Road.
7. Special boundaries prescriptions/issues (eg National Park, Marine Park, PP)	NA
8. Silviculture	Thinning operation
9. Critical Boundaries for burning	NA
10. Other items	Myrtle Rust – wash down vehicles, equipment, machinery before leaving LGA. 2 stable gully stuffers at S1 & S3

I acknowledge all the items of this briefing form as per harvest plan HP_ED_310_311_12 have been clearly explained to me and that any conditions which were not clear have been resolved:

Name	Position	Signature	Date

Document the distribution of this harvest plan (or components of this harvest plan) in the table below.

Name	No. of copies	Date	Comments (i.e. roading plan only)