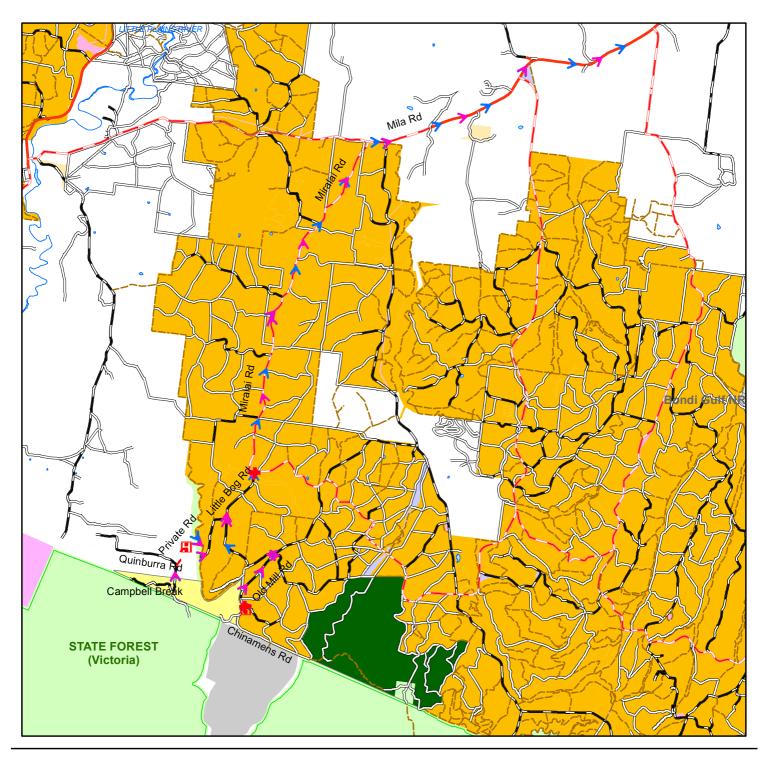
Forestry Corporation 1:80,000 GDA_1994_MGA_Zone_55

FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION HARVEST PLAN OPERATIONAL MAP

BONDI NO. 128 Cpt No:1219 Management Area:EDEN Mapsheet:CRAIGIE(8723-4N)

Plan Name:HP_ED_1219_17 Plan No:56798







Forestry Corporation 1:15,000 Contour Interval 10m GDA_1994_MGA_Zone_55

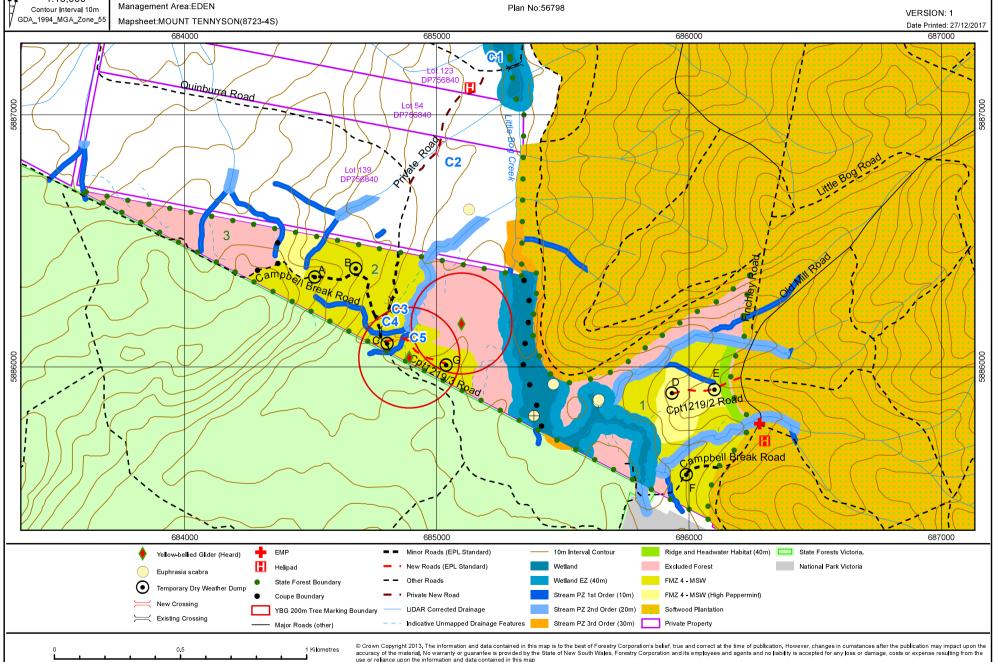
BONDI Forest

Cpt No:1219

NO. 128

FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION HARVEST PLAN OPERATIONAL MAP

Plan Name:HP_ED_1219_17



Forestry Corporation 1:15.000 Contour Interval 10m GDA_1994_MGA_Zone_55

BONDI Forest NO. 128

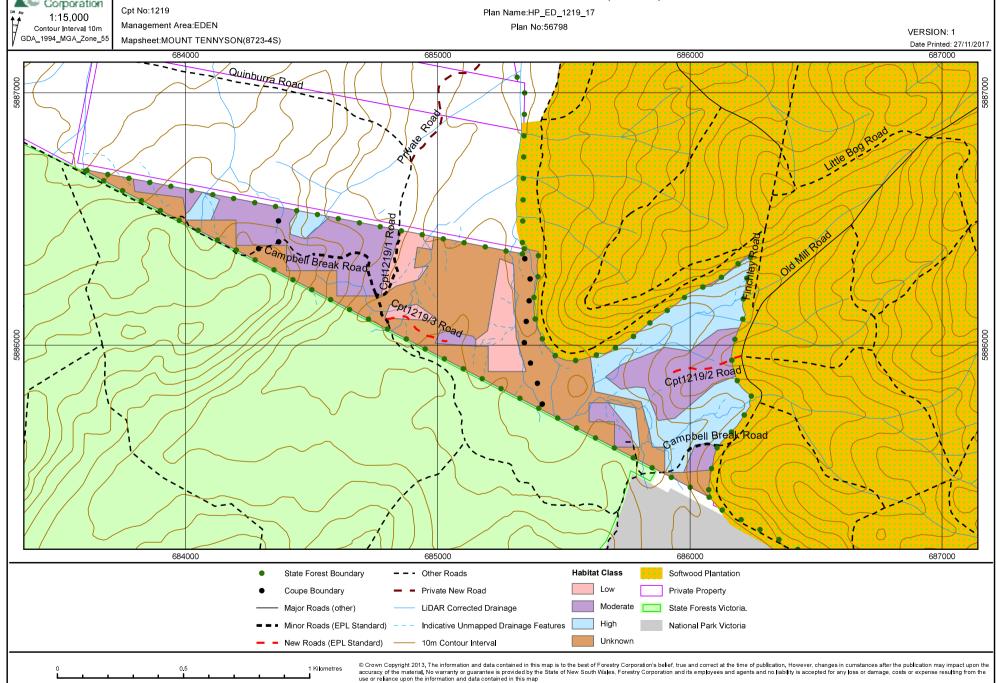
FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION HARVEST PLAN FOREST TYPE MAP

Cpt No:1219 Plan Name:HP_ED_1219_17 Management Area:EDEN Plan No:56798 VERSION:1 Mapsheet:MOUNT TENNYSON(8723-4S) Date Printed: 22/12/2017 684000 685000 686000 Quinburra Road Campbell Break Road 220 131 ForestTypeRN17 No. Hectares 231 pt1219/2 Road 111 35 Peppermint Peppermint- Mountain/Manna Gum 131 22 Brown Barrel - Gum 155 Campbell Break Mountain /Manna Gum 159 11 Forestry Plantations 218 Cleared / Partially Cleared 220 10 231 Swamp 684000 685000 State Forest Boundary - - - Other Roads Type 111 Peppermint Type 220 Cleared / Partially Cleared National Park Victoria Gang-gang Cockatoo Coupe Boundary - Private New Road Type 131 Peppermint - Mountain / Manna Gum Type 231 Swamp Greater Glider Major Roads (other) LiDAR Corrected Drainage Type 155 Brown Barrel - Gum Softwood Plantation Yellow-bellied Glider (Heard) ■ ■ ■ Minor Roads (EPL Standard) Indicative Unmapped Drainage Features Type 159 Mountain / Manna Gum Private Property Euphrasia scabra New Roads (EPL Standard) 10m Contour Interval Type 218 Forestry Plantations State Forests Victoria, © Crown Copyright 2013, The information and data contained in this map is to the best of Forestry Corporation's belief, true and correct at the time of publication, However, changes in cumstances after the publication may impact upon the accuracy of the material, No warranty or guarantee is provided by the State of New South Wales, Forestry Corporation and its employees and agents and no liability is accepted for any loss or damage, costs or expense resulting from the use or relatince upon the information and data contained in this map

Forestry Corporation 1:15,000 Contour Interval 10m GDA_1994_MGA_Zone_55

BONDI Forest NO. 128

FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION **HARVEST PLAN HABITAT CLASS MAP (Indicative)**





WHS Tool / Resource

2.1.3 Site Safety Plan

This site safety plan is for all FCNSW operations of more than one day duration or where an operational plan is in place. Where a contractor is responsible for the work to be undertaken, the contractor must develop their own site safety plan.

A Medical Emergency Evacuation Plan (MEEP) has been developed and is included below

Location						
Forest Name: Bondi Specific loca	ation details: Compartment 1219					
Date work commenced: Description of Work to be undertaken on site: Forest mark-up, road maintenance and construction, harvest supervision, compliance monitoring						
On site communication:						
Radio channel number VHF	UHF					
Other (e.g. mobile phone numbers of other workers on site, hand sign	Other (e.g. mobile phone numbers of other workers on site, hand signals):					
Site Supervisors						
Name:	Contact number:					
Site workers including contractors						
Name:	Contact number:					
First Aid Kit locations						
First Aiders on site						
Hazardous chemicals on site	Safety Data sheet location					
Mandatory PPE required	Task specific PPE required					
Appropriate safety footwear High visibility clothing Long sleeve shirt and trousers A number of bazards are common to all forest sites. All workers	Hearing Protection Gloves Eye Protection Hard hat Other					

A number of hazards are common to all forest sites. All workers should be aware of the following hazards and ensure appropriate control measures are in place.

Element	Type	Number	Version	Owner	Date Effective	Review Date	
2	Tool/Resource	2.1.3	1.0	H & S Manager	July 2014	July 2016	Page 1 of 8
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Common forest and outdoor hazards	Control	Responsibility
Exposure to sun	Long sleeve clothing, sunscreen, work in shade where possible,	All workers
Exposure to heat, rain and cold	Appropriate clothing, adequate water supply, plan work for cooler times of the day where possible	All workers
Overhead hazards/dangerous trees	Identify and remove dangerous trees in work area. Where unable to remove, mark trees. Assessment of work areas prior to commencement and ongoing with changing weather and wind. Wear hard hat	Supervisors, contractors and all workers
Recreational hunting	Recreation hunting is permitted in the planning unit. Exclusion zone signage must be erected prior to commencing all on ground activities	All workers
Bites and stings	Permethrin treated clothing Insect repellent Long sleeved shirt/long trousers	All workers
Slips and trips/uneven ground	Boots worn and maintained in good condition Use of aids- walking poles, carry bags, spikes etc	All workers
Mobile Plant	Safe zones established Traffic management systems in place	Supervisors and workers
Vehicle collision at road intersections and road sides	Warning signs at FCNSW road intersections, implement traffic control plans, 60km/hr speed limit on unsealed forest roads, vehicle headlights on at all time when driving.	All workers
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.	All workers

The following additional hazards are present at this site: Examples include but are not limited to: other contractors/workers in vicinity, mine shafts, cliffs, underground cables, overhead power lines, mobile plant, traffic, school bus route, log trucks on road, work on or near roads, difficult site access, unauthorised visitors, quarries, asbestos etc

Site Specific Hazards	Control	Responsibility

Γ	Element	Туре	Number	Version	Owner	Date Effective	Review Date	
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Safe Work Practices					
The following Safe Work practices are relevant for work conducted on this site (site supervisor to document):					
The following safe work practices are relev	ant for work conducted on this site (site st	upervisor to document):			
The following sale work practices are relev	ant for work conducted on this site (site st	upervisor to document):			
The following Sale Work practices are relev	ant for work conducted on this site (site st	upervisor to document):			
The following Sale Work practices are relev	ant for work conducted on this site (site st	upervisor to document):			

Element	Туре	Number	Version	Owner	Date Effective	Review Date	
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SAFETY DIARY

This diary should be used to record daily safety matters such as toolbox talks, safety inspections etc.

Date	Issue	Initials

Element	Туре	Number	Version	Owner	Date Effective	Review Date	
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Site Safety Plan			This	document is not controll	ed when printed		



SITE SAFETY PLAN DEVELOPMENT

Date of of initial plan development	Developed By	Position	Signature
22/12/2017	Julia Clark	Senior Planner	gree.

SITE SAFETY REVIEW

The site safety plan must be reviewed by the site supervisor at a minimum of every 3 months and reviews recorded below. Where changes are made to the site safety plan, these must be recorded on the plan. A new plan may need to printed where changes are significant.

Date of review	Changes made? If yes, document changes	Conducted by	Initials

Element	Туре	Number	Version	Owner	Date Effective	Review Date	
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SITE INDUCTION

I have been briefed by the Forestry Corporation supervisor on-site before starting work or entering the worksite. I have noted and understand my safety responsibilities. I have taken note of and understand the site safety plan and the medical emergency evacuation plan and the attached location map.

Name	Company	Activity	Signature	Date

Element	Туре	Number	Version	Owner	Date Effective	Review Date	
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WHS Tool/Resource 3.5.3 Medical Emergency Evacuation Plan

Emergency Meeting points are shown on the attached Locality Map

	Description	MGA; Zone for EMP; and Lat/Long for
		helicopter landing point
Phone Reception	Good. Nearest reception at Crossing C1.	Lat/Long:37° 08' 35" S/149° 05' 11" E
		MGA: 685310 E 5887194 N
Emergency	Eastern: Junction of Old Mill Road and	Eastern: Lat/Long:37° 09' 21" \$ / 149° 05' 52" E
Meeting Point	Chinamens Creek Road.	MGA: 686297 E 5885758 N
	Western: Junction of Miralai Road and	Western: Lat/Long:37° 07' 49" S / 149° 06' 05" E
	Little Bog Road.	MGA: 686676 E 5888583 N
Helicopter Landing	Eastern: Junction of Old Mill Road and	Eastern: Lat/Long:37° 09' 21" \$ / 149° 05' 52" E
point	Chinamens Creek Road.	MGA: 686297 E 5885758 N
	Western: Clear paddock in private property	Western: Lat/Long:37° 08' 39" S / 149° 05' 03" E
	northern boundary of compartment	MGA: 685116 E 5887100 N

Procedures to obtain ambulance assistance	
 Dial 000 If there is no mobile coverage, dial 112 (which will work on any accessible mobile phone system). If no response on 112: 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) 	The nearest Forestry Corporation of NSW office is: Bombala Contact on:- Channel: 165 Telephone: 1300 880 548 Give details of the situation and ask for a 000 call to be placed.

000 operator question:	Response:
1. Police, Fire, Ambulance?	Ambulance is required. Nearest control centre for ambulance: Wollongong
2. Suburb?	State Forest name: Bondi
	Nearest town or locality: Bombala
	Nearest ambulance station: Bombala
3. Address?	Chinamens Creek Road
4. Nearest road junction/cross street?	Old Mill Road and Little Bog Road
5. Local Government Area?	Snowy Monaro
6. Nature of the problem?	Describe the accident, number, age and condition of casualties. Are they conscious, are they breathing?
7. Where is the accident?	Refer to safety meeting point above
Directions to navigate from nearest ambulance station to the emergency meeting point.	From Bombala head south on Monaro Highway for approx.10km, turn right onto Mila Road for approx. 12km, turning left onto Miralai Road for approx.8km to the junction of Little Bog Road or turning right into Little Bog Road for approx. 3km turning right onto Old Mill Road for approx.1km to the junction of Old Mill Road and Chinamens Creek Road.
8. 4WD ambulance required?	Yes/No: UHF radio channel to use:
9. Injuries?	Give detailed information about the condition of the casualty (do not mention names over radio system)

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10. Your name and call back number:	

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Hardwood Forests Division

Harvest and Haul Plan



State Forest	Bondi	Compartment	1219		
Management Area	Eden	IFOA Region	Eden		
Harvest Plan No.	56798	Coupes	1 (part) & 2 (part)		
Legal Conditions	Native Forest Harvesting in accordance with IFOA conditions. Harvesting and Roading activities must have EPL coverage. To implement this plan you must hold a current Contractors Licence. Standard Harvest Plan Conditions and Operating Procedures apply. Survey expiry date for this plan is 13/03/2027.				
Certification	Timber products removed from the plan area are within the Defined Forest Area covered by Australian Forestry Standard AS4708:2013 Certificate 604224				
Prepared by	Planner Julia Clark	Julia Clark	Date: 22.12.17		
Approved by	Operation Planning Mgr Shane Clohesy	Shane Clohesy	Date: 22.12.17		
Abbreviations	PA = Production Assistant, PS = Production Supervisor, RC = Roading Coordinator, Crew = Harvest Contractor/Forest Operators, IFOA = Integrated Forestry Operations Approval, TSL = Threatened Species Licence, EPL = Environment Protection Licence, FL = Fisheries Licence, CH = Cultural Heritage, SOP = Standard Operating Procedure, HPOM = Harvest Plan Operational Map.				

1. Harvest Area Details

	Cpt 1219	Total
Plan Compartment ID	56798	
Gross Area (ha)	95	95
Harvest Area	37	37
Estimated Yield (m³)	8,288	8,288
Yield/ha	224	224
Slope (% 0-20 degrees)	100	100
Slope (% 20-25 degrees)	0	0
Slope (% 25-30 degrees)	0	0

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Contractor must ensure timber removed is allocated to the correct compartment when entered onto Delivery Docket.

2. Management Conditions on Boundaries

Boundary	Conditions
Private Property	Private property occurs adjacent to the northern boundary of the compartment, as indicated on the HPOM. Private property owner have been notified of the scheduled harvesting. The PP boundary must be located and marked by the PA.
FMZ	FMZ 4- General Management occur within the whole of the compartment.
National Park	National Park Victoria forms the southern boundary of coupe 1 of the compartment and is shown on the HPOM. The PA must mark the boundary as mapped. The crew must ensure access roads to the National Park are not impeded by forestry activities and the roads condition is maintained.
State Boundary	The state boundary form the southern boundary of Compartment 1219. Ensure that harvesting operation does not encroach over this boundary. This boundary must be marked by the PA.
Cultural Heritage	Surveys have been conducted. Exclusion zones for heritage items/places do not occur within the compartment. If any potential heritage sites are identified notify the planner immediately.

3. Expected Yields

Product Estimates	Volume
Sawlog	740m ³
Pulp	7,548m³
Total	8,288m³

Species	Species Mix (Sawlog)	
FAS	25%	
Gums	25%	
PEP	50%	

4. Haulage

Haul Route	Western section: North on Cpt1219/1 Road to new road in private property to unnamed pine roads onto Little Bog Road. Turn left onto Miralai Road and then turning right onto Mila Road, turning right onto Monaro Highway and then turning left onto Imlay Road.
	Eastern section: North on Chinamen Creek and Old Mills Road, turning left on Little Bog Road, turning left onto Miralai Road and then turning right onto Mila Road, turning right onto Monaro Road and then turning left onto Imlay Road.

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5. Community

Issue	Detail	Conditions	
Notifications Required	Nil	All relevant notifications have been conducted. A notification list for FCNSW staff is available from the planner.	
Permit to Enter Required	To access private property	Private property roads (Quinburra Road and Private Road) are not to be used for haulage until the Permitto-Enter agreement has been signed. PA is to check with Harvest Planner for the status of this.	
Neighbours		Harvesting activities are not to encroach onto private property on the northern boundary and Victoria forests on the southern boundary of the compartment.	
Pests/Weeds	Myrtle Rust and other noxious weed	Myrtle Rust is known to occur in Cooma-Monaro Shires. To prevent further spread the crew must ensure all harvesting machinery, equipment and vehicles heading west from Cooma-Monaro Shire or south into Victoria are checked and all infected vegetation removed.	
		In order to avoid the spread of any noxious weeks, all harvesting and roading machinery and equipment must be washed down prior to entering the private property. Any vegetative material must be removed from machinery and equipment.	

6. Infrastructure

Infrastructure	Conditions
Livestock, gate and fenceline	There is a gate and wire fence between Lot 123 and pine plantation. Ensure that gate is kept shut to keep livestock in. Ensure no damage to the gate and fenceline.
Haulage route roads within pine plantation	Ensure roads are maintained and restored to their original condition prior to harvesting operation.

7. Harvesting Conditions

Silviculture Type	Harvesting Objectives and Condition for each stand condition
Modified Shelter- wood (MSW) Entire Harvest Area	The harvest area is predominately mature to over mature Brown Barrel, Mountain and Manna Gums and Peppermints in mixed aged stands. The objective is to harvest all commercially available trees to create canopy openings and ensure mechanical disturbance creates a suitable seed bed for regeneration of the stands.
	Crew to target sawlogs, pulpwood and other miscellaneous products as markets allow.
	PA to instruct crew to retain patches (>0.5ha) of quality advanced regeneration where they occur.

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Crew to remove all merchantable stems not marked for retention.
The crew is responsible for protecting retained seed trees and retaining patches of advanced regeneration.

IFOA Limits	MSW – Cpt 1219
Net Harvestable Area	66
Harvest Area	37
Planned Removal	56%

8. Tree Retention - refer to TSL booklet for full conditions

Prescription	Condition/Responsibility		
Mark-Up – the PA is responsible consistent with Forest Mark Up	for marking up the forest ahead of harvesting operations and Tree Retention SOP		
Compartment Mark-Up Survey (5.1, 5.2)	Compartment mark-up surveys must be conducted at least 100m in advance of operations. The survey must search for threatened and protected species features listed in conditions 5.1 and 5.2 of the TSL.		
Hollow-bearing and Recruitment tree retention (H and R)	Additional H trees for Greater Glider condition does apply. PA must verify the habitat quality and record on the habitat quality map. PA must select and mark H and R trees as per the habitat quality.		
	Habitat Quality H Trees/2ha R Trees/2ha High 12 12 Moderate 8 8 Low 4 4		
Significant Food Resources (5.6 k)	PA must mark for retention - 6 Eucalypt feed trees/2 ha where they occur, glider sap feed trees, stands of forest oak and forest oak feed trees. E. dalrympleana, E. viminalis and E. fastigata are suitable E tree species present in this compartment.		
Harvesting - crew and PA respo	nsibilities		
Protection of Retained Trees (5.6g)	Trees marked or selected for retention must not be felled. The crew must minimise damage to H, R and E trees by using directional felling. Harvesting debris should not accumulate within 5 m of retained trees. Where debris does accumulate the crew must remove or flatten to < 1m high. The PA must be notified of any badly damaged retained trees and they must assess and record if a replacement retained tree is required.		
Stag Retention (Dead standing trees 5.6e)	The crew should retain stags where safe to do so.		

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	The crew must record the date, DBH, risk and location of unsafe stags removed
Significant food resources	The crew should avoid damaging flowering or fruiting banksias or grass trees.

9. Site-Specific Flora and Fauna

Condition	Boundary Type	Prescription
Riparian Habitat Protection (5.7)	Pink Tape	Implement filter strip/stream exclusion zone around drainage features as shown on the HPOM. Refer to SOP1.
(Lidar Corrected)		PA must mark the location of all mapped 1st order drainage lines and UMDL.
(4.00.000)		The crew will locate and protect all 2 nd order and above streams with GPS.
Ridge & Headwater	Pink Tape	RHH is mapped in the compartment.
Habitat (RHH) (5.8)		The PA must mark as an exclusion the RHH boundary as shown on the HPOM.
		The crew must protect all areas of marked RHH.
Wetlands (5.9)	Pink Tape	Wetlands are mapped in the compartment.
		The PA must mark as an exclusion the wetland boundary as shown on the HPOM.
		The crew must protect all areas of marked wetland.
Rough Eyebright (Euphrasia scabra)	Pink Tape	Rough Eyebright (<i>Euphrasia scabra</i>) records are located within this compartment. No individuals of these plants have been located within the net harvest area during ecological surveys, however, if an individual is located (See appendix 1 for plant profiles), the PA must mark a 10m exclusion zone around each individual plant (6.18, TSL). If colonies of more than 5 individuals are found apply 6.18 (d), TSL. Notify Senior Ecologist.
		The crew must protect all marked areas of exclusion zones.
Fish	N/A	Compartment 1219 contains Class 1 Aquatic Habitat. All streams, drainage lines, wetlands and other water bodies within the compartment are Class 1 Aquatic Habitat. Only crossings shown on the HPOM can be used.

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10. Soil & Water - Refer to EPL Booklet for full conditions

Issue	Assessment	Conditions
EPL Scheduled Activity	Yes	
Inherent hazard level	1	Nil
Dispersible Soils	No	Nil
Mass Movement / Instability	No	Nil
Seasonality conditions	No	Nil
Historical or existing erosion	No	Nil
Ground cover	>70%	Nil
Seasonal Burning conditions	No	Nil
Log Dumps	SOP 5	PA is responsible for authorising moving the location of a log dump.
Roading management during harvesting	SOP 6	Refer to SOP 6. PA is responsible for monitoring road and crossing drainage during haulage.
Wet Weather and Rutting	SOP 6	Crew is responsible for implementing automatic closures and following notified closures. PA is responsible for ensuring crew notified when notified closure is lifted.
Snigging	SOP 8	Crew is responsible for progressive drainage of snig tracks
Snig Track Crossings	SOP 9	PA is responsible to ensure snig track crossings are approved prior to use and rehabilitated upon completion.

11. Crossing Approvals

All crossing approvals are shown on the operational map – any other feature crossings must be assessed, recorded below and approved by the Operations Planning Manager before use.

Crossing	EPA Approval	Conditions
Existing C1, Mapped 3 rd order DL	N/A	See details in Section 15, Roading Plan.
Existing C2, Mapped 2 nd order DD	N/A	See details in Section 15, Roading Plan.

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Existing C3, Unmapped DD	N/A	See details in Section 15, Roading Plan.
Existing C4, Mapped 1st Order DL	N/A	See details in Section 15, Roading Plan.
New C5, Mapped 1 st Order DL	N/A	See details in Section 15, Roading Plan.

12.	Operational Plan Briefir	: A briefing of this operational	plan was conducted by
-----	--------------------------	----------------------------------	-----------------------

Person	Role	Nature of Briefing	Date

13. Acknowledgement of Briefing: I acknowledge that I have received a copy of the plan documents and that I have been briefed on the conditions of the Plan. I understand the operational control requirements as outlined in the plan and take responsibility for the implementation of plan conditions relevant to my responsibilities

Name	Role	Signature	Date

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14. Standard Operating Procedures: The following SOP's apply to this plan. FCNSW staff and the crew must hold a copy on site whilst operating and comply with the conditions set out in each SOP.

Procedure Number	Title
1	Drainage Feature Protection
2	Exclusion Zone Boundary Management
3	Forest Mark-Up
4	Operating in Inherent Hazard Level 3 Areas
5	Log Dump Operation and Use
6	Road and Crossing Management and Wet Weather Controls
7	Safety Requirements
8	Snigging and Snig Track Crossing
9	Documentation and approvals

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0	per	atio	ona	l Di	ary	/ :

Date	Issue	Action Requirements	on Auired Co	ction ompleted	Initials
Dogard, D	aily activities (eg tree marking, dump 2); Condi	tion F. 2 of TCL itams	EEC location	ne rocky out	erone keek

Record: Daily activities (eg tree marking, dump 2); Condition 5.2 of TSL items - EEC locations, rocky outcrops, koala scats, feed tree identification etc), discussions with stakeholders/neighbours/ site visitors; areas of impenetrable understorey; unviable areas not marked, non-conformances; harvesting issues identified, twice weekly road and crossing drainage checks

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15. Roading Plan: Maintenance works not completed by RC 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.

Summary of roading requirements		
Feature	Details	Works Required
Existing roads to be used.	1500m/3	Yes
New roads to be constructed	1155m/3	Yes
Existing crossings used	4	Yes
New crossings to be constructed	0	N/A
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

Checklist of wor	rks required on roads & crossings			
Road/Crossing Name	Works Required	Date Started	Date Finished	Initials
Quinburra Road (in private property) (550 m) FCNSW Responsibility	Brush off regrowth on road and road side vegetation. Clear and reshape road pavement for truck passage. Ensure that the total width of the road does not exceed a maximum of 6m. Install drainage structures to allow for sufficient drainage of road. Place 100mm rock at trench at E685223 N5887173 to smooth out pavement surface. For the section on cleared paddock, use haulage route as mapped and pegged in field over natural vegetated (grass) surfaces. Rehabilitate upon completion of operation if required by ripping compacted soil and blading off to reform surface to natural state. (PA to liaise with private property owner regarding the need for this rehabilitation.)			
Campbell Break Road (640 m) Contractor Responsibility	Brush off road side vegetation. Clear up to 3m on either side. Maintain and install drainage structures according to EPL specifications. RC/PA Comments:			

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Cpt1219/1 Road	Brush off road side vegetation. either side. Maintain and install				
(310 m)	according to EPL specifications.				
Contractor					
Responsibility					
	RC/PA Comments:				
Private Road	Use haulage route as mapped a				
(600 m)	Confine usage to a maximum re Rehabilitate upon completion				
Contractor	required by ripping compacted	soil and blading off			
Responsibility	to reform surface to natural sta private property owner regardii	`			
	rehabilitation).				
	RC/PA Comments:				
Cpt1219/2	Construct new road with a max	kimum road prism			
Road	of 7m.	·			
(285 m)	Install drainage as per EPL.				
Contractor	RC/PA Comments:				
Responsibility					
Cpt1219/3	Construct new road with a max	kimum road prism			
Road	of 7m. Install drainage as per EPL.				
(270 m) Contractor	install draillage as per LFL.				
Responsibility					
	RC/PA Comments:				
Crossing C1 –	Mapped 3 rd Order drainage	line. 600mm pipe			
Existing on Quinburra	culvert with headwalls and outlet.				
Road	Line road pavement and approaches within 20m with gravel/rock on eastern approach and for 50m				
(E685310 N5887194)	on the western approach. Install road drainage				
FCNSW	structures on both approaches outside of wetlands. Refer to the Fisheries Licence Conditions 8.2 & 8.4				
Responsibility	- 8.6.	Jonations 0.2 & 0.4			
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		Т			
	RC/PA Comments:				
Crossing C2 – New on Private Road (E685009 N5886872) Contractor Responsibility	Mapped 2 nd order drainage drainage depression in the field Gravel crossing and approache RC/PA Comments:	I. Natural causeway.			
Crossing C3 – Existing on Cpt1219/1 Road (E684817 N5886246) Contractor Responsibility	Unmapped drainage der causeway. Clear overgrown vegetation of Maintain and install drainage so on both approaches if required RC/PA Comments:	tructures at 5 – 30m			
Crossing C4 – Existing on Campbell Break Road (E684776 N5886135)	Mapped 1st Order drainage line Clean out inlet and outlet. Rock Install drainage structures at approaches according to EPL s	c armour if wet.			
Contractor Responsibility	RC/PA Comments:				
Crossing C5 – Existing on Cpt1219/3 Road (E684866 N5886110) Contractor Responsibility	Mapped 1st order drainage line. Construct crossing during perstream flow to minimise second crossing and approaches. Ensured spread over the natural bed level and downstream side to avoid effect and creating a physical formula mandinate in the strength on both approaches acceptifications. Refer to the Fisheries Licence (1986). RC/PA Comments:	eriod of no or low dimentation. Gravel sure that the rock is rel on both upstream causing a waterfall ish passage barrier. tructures at 5 – 30m cording to EPL			
	NOFA COMMENTS:				
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Rough Eyebright - profile

Scientific name: Euphrasia scabra Indicative Conservation status in NSW: **Endangered**

Commonwealth status: Not listed 🗷

Gazetted date: 13 Aug 1999 Profile last updated: 20 May 2014

Description

Rough Eyebright is a semi-parasitic, annual herb, growing to about 0.5 m tall. The stems branch just below the flower-clusters (inflorescence). The leaves are variable on individual plants; those closer to the inflorescences tend to be narrower and have more teeth. The leaves are stalkless with up to five pairs of teeth and a terminal tooth. The green calyx (the 'base' of the flower) is four-lobed and covered in hairs. The yellow flower tube is fivelobed.

distribution



predicted
The areas shown in pink and/purple are the sub-regions where the species or community is known or predicted to occur. They may not occur thoughout the sub-region but may be restricted to certain areas. (click here to see geographic restrictions). The information presented in this map is only indicative and may contain errors and omissions.

Distribution

There are ten old herbarium collections of Rough Eyebright from NSW (including Port Jackson, Bathurst Plains, Lake George, Jindabyne, Yarrangobilly Caves and Tumbarumba). The species is regarded as extinct in South Australia. There is one population in Tasmania and seven in Victoria. There are three extant populations in NSW: Bondi State Forest, South East Forests National Park and near Nunnock Swamp, Total NSW population is between 250 and 500 plants. This number varies with season with few plants appearing in some years.

Habitat and ecology

- Occurs in or at the margins of swampy grassland or in sphagnum bogs, often in wet, peaty soil.
- An annual species.
- Most flowering collections of the species have been made between January and April.
- Appears to be self-fertilising but seed production is variable, perhaps depending on season.
- Although parasitic, the species does not appear to be host-specific.

Regional distribution and habitat

Click on a region below to view detailed distribution, habitat and vegetation information.

- **Central West**
- Hawkesbury-Nepean
- Murrumbidgee
- Southern Rivers

Threats

- · Large, unexplained spatial fluctuations in population numbers
- Low population numbers increase risk of local extinction from other threats
- NSW populations are threatened by pig and deer damage.
- Competition from the vigorous native Purple Loosestrife (Lythrum salicaria) and blackberries.
- · Changes to swamp hydrology and vegetation.
- Holcus lanatus and emerging threat of blackberry; direct competition with Euphrasia.
- Staff unaware of the species possible destruction of the site through vehicle access.
- Populations are threatened by grazing by stray domestic stock.
- Populations are threatened by off-road vehicular disturbance.

Recovery strategies

A targeted strategy for managing this species has been developed under the Saving Our Species program; click **here** for details. For more information on the Saving Our Species program click **here**

Activities to assist this species

- · Undertake pig and deer control.
- Searches should be made for the species in autumn where developments or activities may have an impact on potential habitat (such searches are normally done in spring when most other species are in flower).
- Damage to or changes in hydrology of swampy vegetation must be avoided,
- All vegetation within 200 m of swamps supporting the species should be retained and not disturbed.
- Fence the populations to exclude stock and vehicles; otherwise limit movement through the populations.
- Undertake weed control where required. Avoid spraying weeds close to Rough Eyebright to ensure they are not impacted by poison.
- Consult with State Forests to ensure the roadside population is not inadvertently destroyed.
- Undertake searches for other populations in likely habitats in areas the species is known to have previously occupied,

Information sources

- Harden, G.J. (ed.) (1993) Flora of New South Wales Vol. 4. UNSW Press, Kensington, NSW.
- NSW Scientific Committee (1999) Euphrasia scabra (a herb) -Endangered species determination - final. DEC (NSW), Sydney.
- Walsh, N.G. and Entwisle, T.J. (1999) Flora of Victoria; Volume 4, Dicotyledons Cornaceae to Asteraceae. (Inkata Press, Melbourne)



Rough Eyebright, Jackie Miles Image 1 of 4. View slideshow.

Related information

Euphrasia scabra (a herb) - Scientific Committee determination

NSW Flora Online - Euphrasia scabra
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