

FORESTS N.S.W.

SOUTHERN REGION - EDEN

HARVESTING PLAN

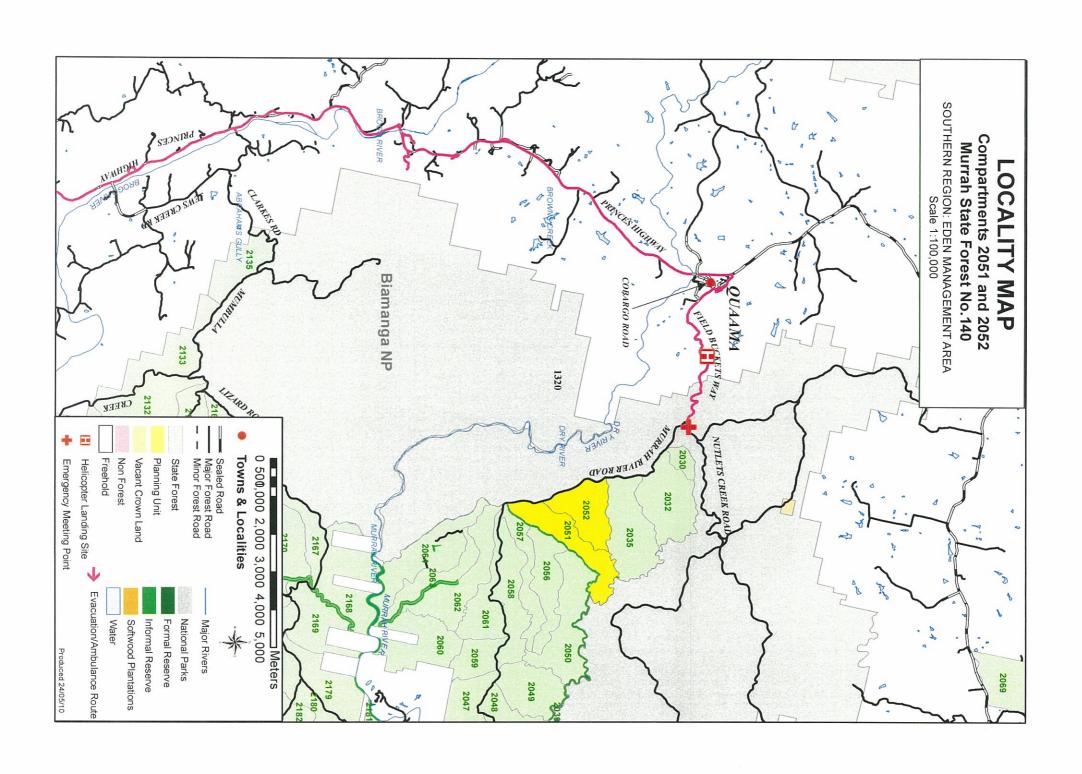
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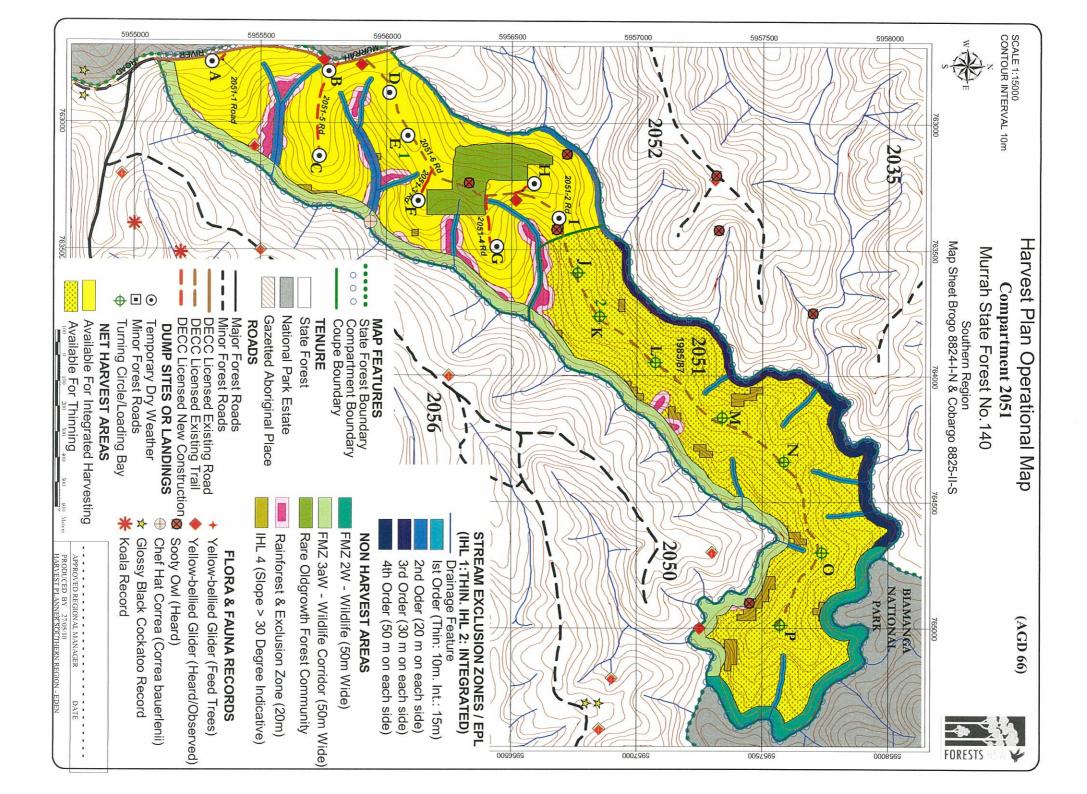
COMPARTMENTS 2051 & 2052

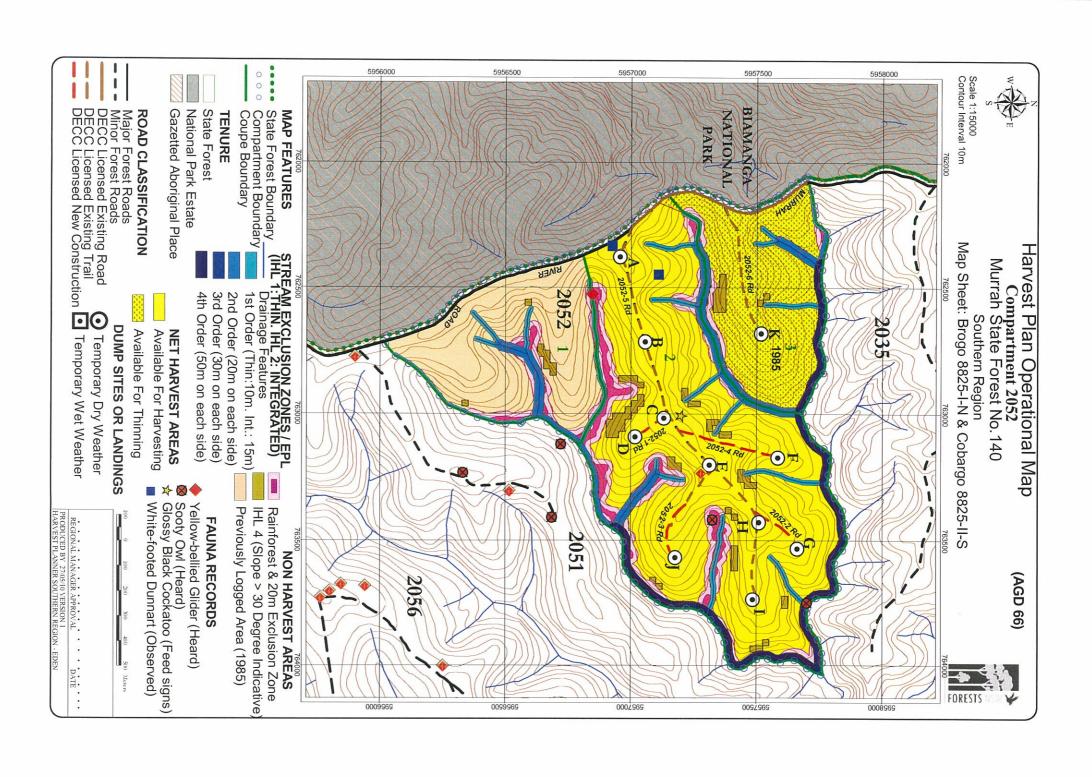
MURRAH S.F. No. 140

HARVESTING PLAN NO HP ED 2051 2052 10

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FORESTS N.S.W. SOUTHERN REGION: EDEN

HARVESTING PLAN HP_ED_2051_2052_10 Compartments 2051 and 2052



1: SAFETY CONSIDERATIONS

1.1: EMERGENCY PLAN INFORMATION.

a	Next G V Good Poor Nil Digital Good Poor Nil Nearest reliable reception: Murrah River Road and Field Buckets Way junction.
(b)	N Radio from work site: Contractor Radio at v
	Charmer No. 56. Call to: Eden Base. Contractor No: Unknown. Call sign from: Cocks Thinning. Call to Bush Boss:
	s NSW Radio from work site: Ontractor Radio at work site: UHF Channel No:
	Call to: Eden Base. Contractor No: 78. Call sign from: Kyniner. Call to Bush Boss: .
(c)	Emergency meeting point for ambulance: Murrah River Road and Field Buckets Way junction. 1:100000 map sheet: Bega. MGA zone: 55. Note: Ensure operator is informed coordinates are in the Old Coordinate system (AGD 66) AMG Grid reference: E760791 N5959904. Lat/Long for GPS: 36° 28' 14"S 149° 54' 38"E.
(d)	Closest Helicopter Landing Place: Emergency helipad at cleared paddock on Field Buckets Way immediately west of Biamanga National Park. 1:100000 map sheet: Bega. MGA zone: 55.
	Note: Ensure operator is informed coordinates are in the Old Coordinate system (AGD 66) AMG Grid reference: E759012 N5960554. Lat/Long for GPS: 36° 27' 55"S 149° 53' 25"E.
(e)	Procedure for obtaining Ambulance assistance: Dial "000" OR Call Eden Forestry Office for Ambulance assistance. Dial "112" only as an alternative to "000" if you have a GSM digital mobile phone and you

are outside your own provider's GSM network coverage area.

000" Operator Question Response

 Police, Fire, Ambulance? Ambulance Wollongong.

Suburb (State Forest name): (Nearest Ambulance station): (Nearest town or named locality): Bermagui Murrah. Quaama.

Address: (Nearest named State forest road): Murrah River Road

4 Nearest Road Junction: Murrah River Road and Fields Bucket Way.

5 .Local Government Area: Bega Valley Shire Council

Nature of the problem: Give details of accident, number and condition of

casualties.

Where is the accident: Work site location – (Centre of the compartments).

(AGD 66) MGA Grid reference: Compartment 2051: E763647 N5956810

Compartment 2052: E762885 N5957128

Lat/long for GPS: Compartment 2051: 36° 29' 51"S 36° 29' 42"S 149° 56' 36"E. 149° 56' 05"E.

Compartment 2052:

φ. Directions to navigate from Ambulance Station to meeting point:

Directions from Bega:

North on the Princess Highway for approx. 28.1 km to Quaama township turnoff.

Turn right onto Bega Street for approx. 0.4 km to Cobargo Street.

Veer right onto Cobargo Street for approx. 0.2 km to Bermagui Street

Veer right onto Bermagui Street for approx 0.4 km where Bermagui Street becomes Field Buckets Way.

Buckets Way, Murrah River Road and Nutleys Creek Road Travel east on Field Buckets Way for approximately 4.4 km to the junction of Field

9. Injuries? the casualty. Give detailed information about the condition of

or Batemans Bay Office: 1300880548 Give your Mobile Number

10.

Call back No.

11. Name of Reporter Give own name

1.2: SITE SPECIFIC IDENTIFIED HAZARDS.

for this harvesting area of the contractors Safety Management Plan. A copy of the hazard assessment and control control strategy has been described, the contractor must develop appropriate strategies as part the attached table and where appropriate, control strategies have been applied. Where no strategies is provided to assist in the development of the contractors Safety Management Plar Assessment of existing hazards was undertaken at the time of planning. These hazards are 3

ldentified hazards requiring risk assessme control strategy in Safety Ma ent Plan

identilled hazards requiring risk asse	Identified nazards requiring risk assessment and control strategy in Safety Management Plan
IDENTIFIED HAZARD	SUGGESTED CONTROL STRATEGY
1. Adjoining roads of various traffic	Warning signs at intersections, road closure and traffic
levels	control measures.
2. Overhead hazards associated with	Assess overhead hazard within two tree lengths (based on
dumps	the tallest surrounding trees) of the dump. Assess risk, & if necessary remove hazard or relocate dump site.
3. Hazardous or dead trees	Refer to FNSW Safety Standard 1.3.9. Assess area within
	two tree lengths of work site. Assess risk, mark any Distinctly
	Dangerous Trees with the symbol "Ø↑" and 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.
4. Dast II on passify verifices along	Restrict speed to millimise dust generation, slow down when
מוור ווממומטקי ורטמוכים.	increase visibility.
5 Bus stop	 There is a bus stop on Cobargo Road in the township of
	Quaama right outside Quaama Store and adjacent to the
	Quaama Church. Haulage vehicles must take extra care
	at this location.
6 Bus Route	
	vehicles to transport children to the Cobargo Road bus
	stop above, between the hours of 7:30 to 9:00am and
	3:30pm to 4:30pm. On weekdays, to the greatest extent
	practicable, log haulage should avoid school bus times on
	the above roads. The school bus is tuned into Channel
	40.

(a) Traffic management/road closures

- tree lengths of Murrah River Road and all internal forestry roads are being felled River Road and all other internal forestry roads are closed to all traffic when trees within two tree lengths (based on the tallest surrounding trees) of a road or extracting on roads or The logging contractor is responsible for traffic control on all roads when felling is within two oading is occurring within 10 metres of a road. The contractor must ensure that Murrah
- . must be kept to a minimum to accommodate general public access on this road. Forests NSW Supervising Forester must be notified well in advance of any proposed road closures along Murrah River Road. The duration of closure on Murrah River Road
- . Head Road and Murrah River Road. such a location that allows large vehicles with trailers etc enough room to turn around safely inform the general public of the road closures. Traffic control signage should be placed in In the event Murrah River Road is closed. Forests NSW Supervising Forester must notify the relevant National Parks Office regarding the duration and location of the road closure. Traffic control signage for "road closures" or "short delays" should be placed in strategic locations to i.e. the junction of Fields Bucket Way and Murrah River Road and the junction of Horse
- thoroughfare road approaches leading to areas where harvesting operations are in progress. Warning of timber harvesting operations must be displayed 200 metres either side of all
- . (private school bus operator) on 64936505 and advise that haulage has commenced The Harvesting Team Leader must notify Bega Valley Buses on 64925804 and Brian Ayliffe
- . Buckets Way. Particular care must also be exercised for private vehicles using Murrah River Road and Field

(b) Supervision of 'operator in training'

associated with that work and in any safety precautions which ought to be taken. Field and bush and the Site Safety Plan and hold all relevant licences and accreditations. No person is without competent supervision, any power driven tool, machine or equipment. supervisors must ensure that an employer does not permit an untrained employee to operate training must give instruction in the performance of the work, instruct as to any dangers permitted to commence work unless they have been adequately trained and accredited. The All new operators entering the work site must be inducted by the reading of the Harvesting Plan

.3 Site visitors

(a) Authorised

personal protection equipment: i) All authorised visitors to active timber harvesting/roading operations must wear the following

- an approved safety helmet
- suitable heavy duty footwear, with firm ankle support and non-slip soles
- approved high visibility clothing
- eye and ear protection if appropriate

operations can be safely viewed. to the Supervising Forest Officer (SFO) or bush supervisor who will determine points from which ii) Immediately upon arrival at an active timber harvesting/roading operation, visitors must report

iii) The following minimum safety distances must be observed while operations are active:

- Manual tree felling at least 2 tree lengths (based on the tallest surrounding trees)
- Log dump operations 12 metres from the working area (edge of dump perimeter)
- Mechanical harvesting 2 tree lengths (based on the tallest surrounding trees) and when the driver is advised
- Active snig track at least 2 tree lengths (based on the tallest surrounding trees)
- Road & crossing maintenance &/or construction at least 2 tree lengths (based on the tallest surrounding trees).

(b) Unauthorised

addition unauthorised visitors must wear the personal protection equipment outlined in 1.3(a)(i) 63(1)(a)) or interfere with such equipment (clause 63(1)(b)) Forestry Regulations 2009. In above i) All unauthorised visitors to active timber harvesting/roading operations must not approach within 100 metres of a person operating timber haulage or harvesting equipment (clause

ii) Failure to observe the above guidelines will result in the following procedure

- All operations to cease immediately.
- 63(1)(b) of Forestry Regulations 2009 and to leave the site or move outside the 100 metre Unauthorised visitors to be advised that they are in contravention of clause 63(1)(a) or restricted area immediately.
- Notify the Forests NSW Office of unauthorised visitors.

2: AREA IDENTIFICATION

Management Area: Eden.

State Forest: Murrah No. 140

Management Section:

AS ATOR:
AS ATOR:

AFS Certification: AS 4708:2007. ISO 14001

Compartment(s) Numbers: 2051 and 2052. Compartment 2051 Integrated Event Id. 14288

Compartment 2051 Thinning Event Id. 14289.
Compartment 2052 Integrated Event Id. 14290.

Compartment 2052 Thinning Event Id. 14291.

Table 1: Area of Plan by Logging Coupes (hectares)

154.3		TOTAL
82.7	2	Proposed for Thinning
71.6	_	Proposed for Integrated Harvesting
Net Area (ha)	Coupe	
		Area of Compartment: 208.4 ha
		Compartment: 2051

Compartment: 2052		
Area of Compartment: 188.5 ha		
	Coupe	Net Area (ha)
Proposed for Thinning	3	29.9
Proposed for Integrated Harvesting	2	80.9
TOTAL		110.8

3: DESCRIPTION OF PROPOSAL

Compartment 2052. (a) Integrated Harvesting of Native Forest: Coupe 1 of Compartment 2051 and Coupe 2 of

retention of trees for future sawlogs, fauna habitat, seed trees, and soil and water protection. regeneration opportunities through integrated harvesting of sawlogs and pulpwood with the Mixed-age stands dominated by a commercially mature overstorey will be harvested to create

(b) Thinning of Regrowth Native Forest: Coupe 2 of Compartment 2051 and Coupe 3 of Compartment 2052.

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

(c) Roadworks:

The road works required are those associated with this harvesting operation.

(d) Post-harvest Burning:

under prescribed conditions. The Post-harvest burning details are contained in Appendix 2. Post-harvest burning to reduce fuel loads and create a suitable seed bed may be carried

exclusion zones are explained within the relevant sections of this Harvest Plan and indicated on specific burning exclusions associated with flora, fauna, riparian, National Parks and other Post-harvest burning should be confined as far as practicable to the net harvest area. Site the Operational Maps.

FOREST CONDITION 20 SILVICULTURE

4.1: FOREST TYPE:

Table 2: Compartment Forest Types

Compartment	Forest Type (Res. Note 17)
2001 8 2002	63 Woolybutt
	88 Gum-Box-Stringybark
	112 Silvertop Ash
	114 Silvertop Ash-Stringybark
	121 Blueleaved Stringybark
	123 Coastal Stringybark
	169 Yellow-Stringybark

Reference: Baur GN "Forest Types in New South Wales" FC NSW Res. Note No. 17 2nd ed. 1989. Pre-harvest Survey Report Compartments 2051 and 2052, Murrah State Forest, Forests NSW Southern Region - Eden, 2010.

SILVICULTURAL OBJECTIVES AND PRESCRIPTIONS:

(a) Silvicultural Prescriptions for Integrated Operations:

Operational Maps. harvested under an integrated harvesting system as indicated on the Harvesting Plan Coupe 1 of Compartment 2051 and Coupe 2 of Compartment 2052 are proposed to be

- these purposes will be harvested for sawlogs and pulpwood to create good regeneration Mixed-age mature stands and low merchantability areas will be harvested using a modified opportunities economic growth, and structural diversity. Commercially viable trees not required for any of shelter-wood silvicultural system. Trees will be retained for fauna habitat, seed supply, further
- be retained for a subsequent cutting cycle Where safe to do so all future sawlog trees, capable of net merchantable increment, are to
- . future sawlog trees. crowns, shall be retained for seed production. A minimum of four (4) trees per hectare, in the dominant or co-dominant class, with suitable crowns, shall be retained for seed production. These should include retained habitat and
- Seed trees are to be retained around each log dump to assist regeneration of the disturbed area. The number of retained seed trees will be determined by the Supervising Forest Officer

producing crowns. These trees are not additional to those specified in the condition above. (SFO), based on the size of the log dump, but will generally be 3 - 5 trees with healthy, seed

- Harvesting disturbance should be concentrated away from retained trees and exclusion where it is safe to do so This may be achieved by felling trees or pushing heads into non-commercial trees or stands zones, to optimise post-harvest regeneration and provide a good seed bed for regeneration.
- Subject to occupational health and safety considerations, directional felling techniques are to reserve areas and drainage lines. be utilised to minimise damage to retained trees, to avoid hang-ups and to maintain values of

Coupe 3 of Compartment 2052. Silvicultural Prescriptions for Thinning Operations: Coupe 2 of Compartment 2051 and

stands suitable for thinning as indicated on the Harvesting Plan Operational Maps Coupe 2 of Compartment 2051 and Coupe 3 of Compartment 2052 are dominated by regrowth

- remaining final crop trees the number of competing stems in the stand and to concentrate growth potential onto the The principal objective of the thinning operation is to grow high quality sawlogs, over a shorter period, for future harvest. This will be achieved by "thinning from below", to reduce
- . Compartment 2052 is 25 m²/ha. basal area estimate for the proposed area to be thinned in: Compartment 2051 is 26 m²/ha. Thinning will aim at a 50 - 60% reduction in the standing basal area. The current standing
- Operational inventory plots established within Compartments 2051 and 2052 during 2000, based on a 55% basal area removal, estimated the merchantable regrowth volume to be

Compartment 2051 80 tonne/ha. Compartment 2052 86 tonne/ha.

- . with SFO authorisation and will be documented in the SFO copy of the Harvest Plan. thinned to a minimum acceptable retention rate of 80 stems/hectare. This will only occur will be targeted. Where stocking rates and stand quality vary, individual stands may be sawlog potential. Retained stems must be in the dominant or best of the co-dominant classes with greatest A retention rate aim of 160 stems/ha of the most vigorous regrowth trees, of suitable form.
- . the most vigorous stems of good form to grow on. Thinning will aim to remove this volume from the poorer quality stems of the stand, leaving
- . subsequent cutting cycle. All current sawlog trees, capable of net merchantable increment, are to be retained for a
- . bay, where available, to assist in the regeneration of the disturbed area Where safe to do so 1-2 mature seed trees are to be retained near each parking/loading

5: SPECIAL REQUIREMENT AREAS

(a) Forest Management Zone Classification:

Compartment 2051 as indicated on the Harvesting Plan Operational Map. northern boundary, along the eastern boundary and along the south-eastern boundary of Forest Management Zones 2W and 3aW (Wildlife Corridor, 50 m strip) exists along the part of the

PAGE

- All harvesting activities must be excluded from this zone
- avoid fire entering these exclusion zones. Control lines and a carefully planned ignition pattern and sequence should be applied to

The remaining area within these compartments are classified FMZ 4 (general management).

(b) Critical boundaries:

northern boundary of Compartment 2051 and the entire western boundary of Compartment Biamanga National Park adjoins the entire western and eastern boundaries, and a section of the State Forest and Biamanga National Park is 20m west from the centre line of Murrah River 2052 as indicated on the Harvesting Plan Operational Maps. The common boundary of Murrah

- No harvesting activities are to occur on the western side of Murrah River Road
- Ensure no build-up of fuel within 10m of Murrah River Road in order to assist post-harvesting
- Post harvest burning is not allowed on the western side of the Murrah River Road

6: CULTURAL HERITAGE

(a) Cultural Heritage:

Murrah River Road. western boundary of Compartment 2052 as indicated on the Harvesting Plan Operational Maps The common boundary of Murrah State Forest and the gazetted Aboriginal Place is west of boundaries, and a section of the northern boundary of Compartment 2051 and the entire National Park. The gazetted Aboriginal Place adjoins the entire western and eastern A gazetted Aboriginal Place is located to the west of Murrah River Road, over Biamanga

- drains drainage structures and pruning low branches where required. River Road. Road maintenance west of Murrah River Road will be restricted to clearing table No harvesting activities, roadside clearing or burning are to occur on the western side of Murrah
- Ensure no build-up of fuel within 10m of Murrah River Road in order to assist post-harvesting

Compartment Surveys

All relevant representatives have been consulted and inspected Compartments 2051 and 2052 surveys conducted did not locate any sites within the proposed harvest areas

7: FLORA AND FAUNA CONDITIONS

7.1: FLORA AND FAUNA GENERAL CONDITIONS.

(a)Tree Retention for Habitat and Food Resources:

Hollow-bearing Trees:

will be made by the Supervising Forest Officer (SFO) during tree-marking in the field must be retained in "low" quality habitat forest. The determination of "habitat quality classes" "moderate" quality habitat forest and a minimum of two hollow-bearing trees per hectare A minimum of six hollow-bearing live trees per hectare must be retained in "high" quality habitat forest, a minimum of four hollow-bearing trees per hectare must be retained in

- oldest age class available which are likely to persist longer than the oldest trees and are likely to become hollow-bearing trees. "low" quality habitat forest. The additional trees retained must be those trees of the next additional trees must be retained to meet the requirement of six per hectare in "high" quality Where this density is not available, the existing hollow-bearing trees must be retained plus habitat forest, four per hectare in "moderate" quality habitat forest and two per hectare in
- . "Hollow-bearing tree" means a tree where the base, trunk or limbs contain hollows, holes and lost or broken off. burls, protuberances or broken limbs, or where it is apparent the head of the tree has been cavities that have formed as a result of decay, injury or other damage. Such hollows may not be visible from the ground, but may be apparent from the presence of deformities such as
- . suitable for the threatened species known or likely to occur in the area in the area. Preference should be given to selecting those species or trees that are most Retained hollow-bearing trees must represent the range of hollow-bearing species that occur
- . hollow-bearing tree, should be marked and counted as hollow-bearing trees. Trees retained outside the net logging area must not be counted as hollow-bearing trees. Trees retained within unlogged parts of the net harvest area, that meet the definition of a
- Hollow-bearing trees must be scattered throughout the net logging area

Recruitment Trees

- quality habitat forest and a minimum of two recruitment trees per hectare must be retained in "low" quality habitat forest. forest, a minimum of four recruitment trees per hectare must be retained in "moderate" A minimum of six recruitment trees per hectare must be retained in "high" quality habitat
- . hollow-bearing trees which are likely to persist longer than the oldest trees and are, or are likely Retained recruitment trees must be selected from trees of the next oldest age class available to become
- . Retained recruitment trees must represent the range of tree species that occur in the threatened species known or likely to occur in the area. Preference should be given to selecting those species or trees that are most suitable for the
- . tree, should be marked and counted as habitat trees retained within unlogged parts of the net logging area, that meet the definition of recruitment Trees retained outside the net logging area must not be counted as recruitment trees. Trees
- Recruitment trees must be scattered throughout the net logging area

Dead Stags:

.

- to do so. there are less than five stags per hectare, then all stags should be retained where it is safe Five dead stags must be retained per hectare of net logging area where it is safe to do so. If
- . Stags must not be counted as hollow-bearing trees or recruitment trees

Significant Food Resources:

- individual of Allocasuarina spp., indicating intensive use by the Glossy Black-Cockatoo, the tree must be retained and protected from specified forestry activities Where more than 30 crushed Allocasuarina seed cones have been found beneath an
- stands where Allocasuarina spp., dominate the canopy. Specified forestry activities should be conducted in such a manner as to minimise damage to
- . All Yellow-bellied Glider and Squirrel Glider sap feed trees must be retained. Yellow-bellied be counted as hollow-bearing or recruitment trees. Glider sap feed trees are trees with "V" notch feeding scars. Retained sap feed trees should
- Damage to flowering or fruiting banksias and xanthorrhoea spp should be avoided during torestry operations

Protection of Hollow-bearing Trees, Recruitment Trees, and Retained Food Trees:

of live retained trees, provided it is safe to do so removed or flattened where it has accumulated to a height of more than one (1) metre within 5 minimised by techniques of directional felling, where it is safe to do so. Logging debris must be bearing trees, recruitment trees, and retained food trees. Specified forestry activities and post-logging burning must aim to minimise damage to hollow-The potential for damage should be 3

(b) Stream Exclusion Zones:

streams as indicated on the Harvesting Plan Operational Maps. Stream exclusion zones must be applied to the first, second, third, fourth and higher order

Existing snig tracks, roads, moisture differentials, ignition patterns and constructed hand trails should be utilised to avoid fire encroachment into this zone as far as practicable

(c) Rainforest areas:

was determined using API. Field verification will be conducted by the SFO during supervision of the harvesting operation to determine the extent of KB rainforest floristic assemblages The actual location of rainforest areas as delineated in the Harvesting Plan Operational Maps

- Specified forestry activities must be excluded from these rainforest and 20m exclusion zones.
- Existing snig tracks, roads, moisture differentials, ignition patterns and constructed hand trails should be utilised to avoid fire encroachment into this zone as far as practicable

(d) Rare Old Growth Forest Communities:

on the Harvesting Plan Operational Map. An area of rare old growth forest community within Coupe 1 of Compartment 2051 as indicated

- of 2051-6 Road). All harvesting activities must be excluded from this area (other than routine road maintenance
- harvested area to act as bare earth breaks around post-harvesting burns Where practicable, extraction tracks should be constructed close to the boundaries of the
- should be utilised to avoid fire encroachment into this zone as far as practicable Existing snig tracks, roads, moisture differentials, ignition patterns and constructed hand trails

(e) Rocky Outcrop and Cliffs:

No rocky outcrops or cliffs where detected during the pre-planning stage. Refer to the Threatened Species Licence condition 5.11and the Southern Region Fieldguide for rocky outcrop and cliffs

FLORA AND FAUNA SPECIFIC CONDITIONS

(a) Rare or Threatened Flora Species

763396/5955933) as indicated on the Harvesting Plan Operational Map. Chefs Cap Correa:
Chefs Cap Correa (Correa baeuerlenii) has been recorded within Compartment 2051 (GR

- the SFO's copy of the harvesting plan. Where Chefs Cap Correa is located, its location is to be marked in the field and recorded in
- Damage to individuals during forestry activities should be avoided to the greatest extent possible. See Attachment 2 at the end of this harvesting plan for a photo of Chefs Cap

(b) Schedule 1 and 2 Fauna Species Prescriptions:

Yellow-bellied Gliders:

Operational Maps heard records are located within Compartment 2052 as indicated on the Harvesting Plan Yellow-bellied Glider sap feed trees and heard records are located within Compartment 2051,

The following conditions shall apply for Yellow Bellied Gliders

- A 50 metre radius exclusion zone must be implemented around Yellow-bellied Glider dens.
- All Yellow-bellied Glider sap feed trees must be retained. All Yellow-bellied Glider sap feed trees must be marked for retention.
- Where there is a record of a Yellow-bellied Glider within the compartment, or within 100m observation or den site record, 15 feed trees must be retained. Yellow-bellied glider sap feed Within 100m radius (3 ha) around each retained Yellow-bellied Glider sap feed tree outside the boundary of the compartment, the following must apply: trees must not be counted towards these 15 trees.
- Within a 200m radius of a yellow-bellied Glider call detection site record, 15 trees must be

suppressed and be of the preferred species (as per above). marked for retention. Note: habitat trees and recruitment trees may be counted towards the 15 trees as long as they have good crown development, minimal butt damage, should not be cypellocarpa, E. viminalis, E. ovata, E. angophoroides). The feed trees retained must be tree species recognised as a sap feed tree in the area (Eucalyptus botryoides, E retained feed trees should be of the same species as the identified sap feed tree, or be a Mature and late mature trees must be retained as feed trees where these are available.

Koala:

2051 and 2052 during the survey. Species Licence condition 6.11. There was no evidence of koalas located in Compartments Compartments 2051 and 2052 were surveyed for koalas in accordance with the Threatened

record and the Supervising Harvesting Team Leader notified immediately. Harvesting must be notified immediately. Harvesting must cease immediately in the general area of the Supervising Harvesting Team Leader. not recommence in the general area until further instructions have been received from the In the event that a koala or evidence of a koala is detected during harvesting the SFO must

Sooty Owl:

roost and nest sites. In the event that a roost or nest tree is located the following must apply; Harvesting Plan Operational Maps. Care should be taken during mark up to identify possible Sooty Owl heard records are located within Compartments 2051 and 2052 as indicated on the

- Owl nest sites. 50m radius exclusion zones are to be placed around Powerful Owl, Masked Owl and Sooty
- 30m radius exclusion zones are to be placed around Powerful Owl, Masked Owl and Sooty Owl roost sites.

Glossy Black Cockatoo:

the Harvesting Plan Operational Map. Glossy Black Cockatoo feed signs are located within Coupe 2 of Compartment 2052 as indicated on

- Care should be taken during tree-marking to identify, mark and report any Glossy Black Cockatoo nest trees that are found, when a Glossy Black Cockatoo is observed coming out of a hollow.
- All Glossy Black Cockatoo nest trees must be retained.
- Gang Gang Cockatoo) nest tree. (Condition 5.13 (a), (d) and (f) of the Threatened Species Licence apply also to the A 50 metre radius exclusion zone must be implemented around a Glossy Black Cockatoo

White-footed Dunnart:

White-footed Dunnart observed record is located within Coupe 2 of Compartment 2052 as indicated on the Harvesting Plan Operational Map. This species is listed in the Threatened Species Licence, Schedule 5 which is considered adequately protected by the general conditions

were detected during pre-harvest surveys or from existing records within the planning unit. No other Schedule 1 or 2 species that require specific prescription for the proposed operation

Licensee and supervisory staff must immediately report any sightings of Schedule 1 and 2 species to the Harvesting Team Leader.

SOIL EROSION AND WATER POLLUTION CONTROL

	Compartment 2051	Compartment 2052
Inherent Hazard Class	One (1)Thinning Cpe 2	One (1)Thinning Cpe 3
	Two (2) Integrated Cpe 1	Two (2) Integrated Cpe 2
Parent Rock Type	Merimbula Group of Sediments	Merimbula Group of Sediments
	three quarters of Cpt. Ordovician majority of Cpt.	majority of Cpt.
	Metasediments remaining area.	Ordovician Metasediments
		North-eastern tip of Cpt.
Dispersible Soils	Yes.	Yes.
Mass Movement	Nii.	Nii.
Seasonality Constraints	Nii.	Nii.
Slope limits for Harvesting	30 degrees	30 degrees
Slope limits for Snig Track	25 degrees	25 degrees
construction		

Table 3: E.P.L. Site and Soil Assessment Details

Condition for dispersible soils.

constructed, upgraded or maintained in dispersible soils, 70% groundcover on the track Where snig track or extraction track crossings of drainage lines or watercourses are

achieved at the completion of operations at each crossing as per the EPL. surface within 20 metres either side of the crossing must be achieved. This must be

2051 and 2052 There are areas of existing erosion in table drains of the existing roads within Compartments

erosion is occurring. Install drainage at spacing according to EPL specifications along roads where table drain

8.1: DRAINAGE FEATURE PROTECTION.

Table 4: Minimum Filterstrip, Stream Exclusion Zones and Drainage Depression Buffer Widths for Drainage Features in Native Forests

Mapped 4th & higher	Mapped 3rd Order	Mapped 2nd Order	Mapped 1st Order	Unmapped features	Stream Order
20	20	15	10	10	Thinning 2051/2 & 2052/3 Drainage Line Filterstrip Width I.H.L. 1 (m)
25	25	20	15	10	Integrated 2051/1 & 2052/2 Drainage Line Filterstrip Width I.H.L. 2 (m)
50	30	20	10	Z _{ii}	Stream Exclusion Zones Width (m)
OJ.	5	5	5	5	Drainage Depression Buffer Width (m)

The drainage feature protection width in bold (ie the widest) must apply

8.2: ROADS AND CROSSINGS

Roading Plan in Appendix 1, attached to this harvesting plan. indicated on the Harvesting Plan Operational Maps. Reference must also be made to the All new roads must be constructed in accordance with the location marked in the field and as

(a) Wet Weather Controls:

normal wet weather closure procedures and restrictions to wet weather areas Harvesting operations may be conducted throughout the year subject to the application of

There are no wet weather dumps for this operation.

(b) Order of working:

Integrated operation

of Compartment 2052 subject to wet weather constraints and as directed by the SFO The order of working will be progressive harvesting in Coupe 1 of Compartment 2051 and Coupe

Thinning operation

The order of working will be progressive harvesting in Coupe 2 of Compartment 2051 and Coupe of Compartment 2052 subject to wet weather constraints and as directed by the SFO. the SFO) until approval has been given by the SFO. The contractor must not leave a designated working area (loading bay or coupe as specified by ω

(c) Downhill Snigging:

Downhill snigging may be required within Coupe 1 of Compartment 2051 and Coupe 2 of Compartment 2052.

Where downhill snig tracks connect directly with a log dump the following must be used:

- Snig tracks must enter the log dump from the side or below; or
- A drainage structure must be in place immediately before a snig track enters the log dump at the end of each days operation.

8.3: LOG DUMPS and LOADING BAY.

greater than this area must be approved by the SFO. Location of log dumps and loading bay is indicated on the Harvesting Plan Operational Maps. Log dump size should be kept to a 40mx 40m area where safe to do so. Construction of dumps

8.4: EXTRACTION TRACKS.

placed in watercourses or drainage lines. construction. Wherever practicable, walkover extraction techniques should be used in preference to snig track Spoil from extraction track construction, upgrading or maintenance must not be

The operator, in consultation with the SFO, will determine out-row and forwarder extraction track

TREE-MARKING CODE

Southern Region - Eden (EMA) must be in accordance with the following state-wide Harvest Marking Code: As required under the terms of the Threatened Species Licence and IFOA, tree marking in

Table 5: Harvest Marking Code

Description	Symbol
A. STANDARD MARKINGS/SYMBOLS	MBOLS
MARKINGS/SYMBOLS THAT DELIVER KEY REQUIREMENTS ON A STATEWIDE BASIS	S ON A STATEWIDE BASIS
Compartment boundary	"O" or Yellow tape
Where not defined by clear features eg. Road, trail, creek	÷:
Exclusion zone (eg. Old Growth or Species Exclusion Zone)	Three horizontal lines or
Line not to be crossed or disturbed by fallers or harvesting	rings
machinery at any time	Or Blue tape
Edge of net harvest area (eg unmerchantable)	
Retained trees and critical boundaries to be marked within 30m beyond the boundary	
Tree heads may fall across the line, provided they comply with	
Buffer Zone	Two horizontal lines or rings
Areas where disturbance by harvesting is allowed only under specified conditions	(with indication of distance if required)
Extraction System	"l" or white tape
Road/Track line	
Dump site with optional dump number reference	"D" or red tape
Approved crossing site	"β"
Slope angle indication (commences here)	eg " 25 °"
Trees To Be Removed	"•" or dots
Individual tree	

Or Pink tape	ny troofforture marking will conform to this code literate to be
Rings	
Three horizontal lines or	Filterstrips/stream exclusion zones
Blue Ring	Coupe Boundary
"DD"	Drainage Depression Centre line
"CTM"	Cave, tunnel or mineshaft
"PP"	Private property
	Other Markings
"TP"	Threatened plant
"PD"	Phascogale den
"B"; "BR"	Bat record; roost
"Q"; "QL"; "QD"	Quoll record; latrine; den
"SM"	Smoky Mouse record
<u>"F"</u>	Frog record
One horizontal line or ring	Koala retained feed tree
"К"	Koala high use tree
<u>"SG"</u>	Squirrel Glider sap feed tree, record or nest
"γ"	Yellow-bellied Glider v-notch feed tree or record
"N"	Nest (raptors, parrots etc.)
"OWL"	Owl nest and/or roost
"GB"	Glossy black cockatoo feed tree, record or nest
PLUS	
One horizontal line or ring	Flora Fauna Features Retained Tree
ulators, Forests NSW, or others.	markings to highlight particular issues as required by regulators, Forests NSW, or others
nlace of or additional to standard	SPECIALIST MARKINGS/SYMBOLS Additional specialist Markings/Symbols that may be used in place of, or additional to standard
	Arrow to indicate direction of hazard
"♦	Identified Hazard
	Mark to formally cancel previous marks
"X"	Cancellation Mark
"R"	Recruitment tree
"E"	Eucalypt feed tree
"H"	Habitat tree, for any flora or fauna.
	Retained trees not to be removed or damaged (eg grower)
One horizontal line or ring	Retained Trees
"♠" over "•"	Directional felling mark
Symbol	Description

Any tree/feature marking will conform to this code. Items to be marked in the field will be specified in the Harvest Plan

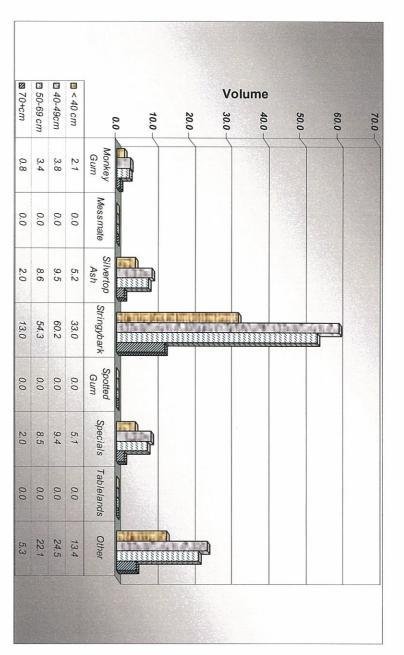
10: YIELD ESTIMATES

Table 6: Yield Estimate Information

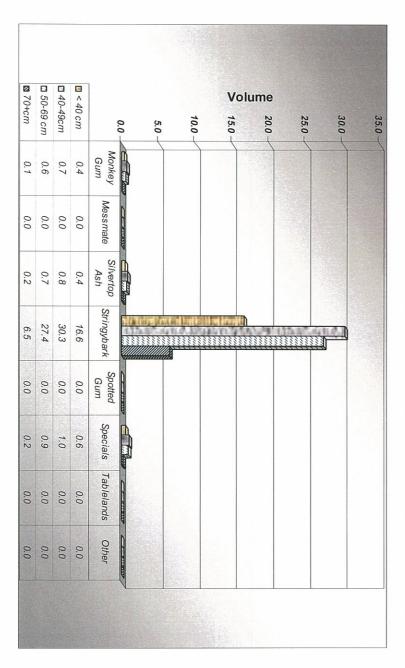
	_	
2052	2051	Compartment No.
1	4	Sawlog Volume (m ³ /ha)
40	65	Pulpwood Volume E1 & E2 (t/ha)

Source: Eden FRAMES, 1997. (Pulpwood volume adjusted to reflect changed specifications 2002).

Graph 1a: Species Group and Size Class Sawlog Volume Predictions Cpt 2051



Graph 1b: Species Group and Size Class Sawlog Volume Predictions Cpt 2052



account for any local variations between coupes 1:1 harvest. This table provides indicative species and size class information only, it does not Note: Predicted volumes have been calculated based on the size and species distribution of the

PAGE

16

11: AUTHORISATION CONDITIONS

11.1: LEGAL AND ENVIRONMENTAL COMPLIANCE REQUIREMENTS.

the Plan. and Operators Licences issued in connection with the timber harvesting operations described in Forestry Act 1916. This Harvesting Plan is a condition of all Timber, Forest Products, Contractors This Harvesting Plan is prepared by Forests New South Wales under the authority of the

agreements issued for the area covered by this Harvesting Plan must comply with: All operations conducted under the authority of the Timber Licence and other licences and

- all licence conditions issued by Forests NSW under the Forestry Act 1916.
- the "Forest Practices Code, Part 2, Timber Harvesting in Native Forests State forests and Crown-timber Lands" (1999);
- the conditions of "The Integrated Forestry Operations Approval for the Eden Region. Forestry and National Parks Estate Act 1998";
- operation, in this case, the "Utilisation Schedule for Graded and Salvage Grade (Interim) the schedule of specifications for the harvesting and utilisation of timber applicable to this (Australia) Pty Ltd (trading as "South East Fibre Exports P/L") (29th September 1999)"; Sawlogs on Crown Timber Lands within Eden Management Area" and the "Wood Supply Agreement" between State Forests of NSW (now Forests NSW) and Harris Daishowa
- . Dockets as a Basis for Account within Southern Forestry Region (Edition IV – October Forests NSW) for Sale of Native Hardwood Pulpwood by Weight using Truck Delivery the Code of Procedure for the measurement of timber and other products applicable to this (trading as "South East Fibre Exports P/L") and Forestry Commission of NSW (now Dockets" and the "Code of Procedure between Harris Daishowa (Australia) Pty Ltd Volume Measurement from within Eden Management Area using Truck Delivery operation, in this case, the "Code of Procedure for Sale of Hardwood Sawlogs by Gross 1994)"; and
- the "Protocol for Fuel Management Eden Management Area"

Variations, additions or amendments to the above documents may be made by the responsible authorities at any time, and must be implemented immediately by the Forests NSW Licensee.

In preparing this Harvesting Plan, the requirements of Part V of the Environmental Planning and have been considered Assessment Act 1970 (as amended) and Section 92 of the National Parks and Wildlife Act

11.2: BREACHES AND INFRINGEMENTS

issue of a Penalty Notice, licensee suspension or prosecution. in accordance with Section 6 of the "Forest Practices Code, Part 2, Timber Harvesting in Native Forests - State forest and Crown-timber Lands". Serious breaches may lead to the Non-compliance with any condition or instruction set out in this Harvesting Plan will be dealt with

11.3: VARIATIONS AND AMENDMENTS TO THIS HARVESTING PLAN

with Condition 16.1 of the Environment Protection Licence. Variations and other specified approvals consistent with Condition 16.1 of the Environment Protection Licence, may be made Manager's counter approval. approvals may only be made by the Supervising Forester and are also subject to the Regional by the SFO to this Harvesting Plan, subject to the Regional Manager's counter approval. Other the field without the prior approval of the Regional Manager, other than those areas consistent Conditions and requirements relating to the Environment Protection Licence cannot be varied in

operational copies of this Harvesting Plan. All approvals must be recorded on the SFOs' Advise and Comments Form attached to all

This Plan must not be amended by a licensee or contractor.

11.4: HARVESTING PLAN AVAILABILITY.

site of logging operations at all times that felling, snigging or environmental work is being undertaken within the area covered by this Harvesting Plan. Copies of this Harvesting Plan must be held available by the contractor or bush supervisor at the

11.5: HARVESTING PLAN DISTRIBUTION LIST.

NAME	PARTS	MINIMUM
		NO. COPIES
Timber Licensees: S.E.F.E.	Maps,1-13 App. 1.	_
: Blue Ridge Hardwoods	Maps,1-13 App. 1.	
Contractors	Maps,1-13 App. 1.	_
Operator(s) (where required)	Maps,1-13 App. 1.	
Supervising Forest Officer [SFO(s)]	Maps,1-13 App. 1.	_
Supervising Forester(s)	Maps,1-13 App. 1.	_
Regional Office Compartment History File	All	_
Soil Specialist (FNSW)	All	_
Forestry Unit - DECC, Sydney South	Summary of Operations 1 – emailed	1 – emailed

11.6: INDUSTRY ENDORSEMENT.

I endorse this Harvesting Plan on behalf of the industry.

final clearances will not be given. At final inspection a S.E.F.E. supervisor must be present. If a S.E.F.E. supervisor is not present,

Company: Licence No:	South East Fibre Exports Signature: Pty Ltd. HE 03259	Signature:
Date:		Title:
Company:	Blue Ridge Hardwoods, Signature:	Signature:
Licence No:	HE 03260	
Date:		Title:

12: PRE OPERATION BRIEFING

12.1: HARVESTING CONTRACTOR ACKNOWLEDGEMENT - (SFO COPY).

will brief other operators not present at this briefing prior to them starting operations. that I understand the conditions of the Plan as explained to me by a Supervising Forest Officer. I I acknowledge that I have received a copy of the Harvesting Plan No. HP_ED_2051 _2052_ _.10 and

בוכפווכפ ואט.	329		
Date:		Title:	
Company:	Kyniner Pty Ltd	Signature:	
Licence No:	224		
Date:		Title:	
12.2: SFO ACKN	12.2: SFO ACKNOWLEDGEMENT – (SFO COPY).	٥٢).	
I acknowledge th and that I have b operational contr	I acknowledge that I have received a copy of the Harvesting Plan No. HP_ED_2051_2052_10 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 Sales Forester or their delegate.	e Harvesting Plan No if the Plan and unde me by the Sales Fo	o. HP_ED_2051_205 rstand the supervision prester or their delega
Acknowledged:	Sign	Signature:	
Title:	Supervising Forest Date : Officer	Φ	
Acknowledged:	Sign	Signature:	
Title:	Relief Supervising Date: Forest Officer		
12.3: PERSONN	12.3: PERSONNEL ATTENDING INSPECTION.		
Name	FNSW/LICENCEE S.E.F.E	Ħ	Date
	Contractor Representative	resentative	
	FNSW		18/05/10
	FNSW		
	FNSW		

13: CERTIFICATION

PLAN PREPARATION		
Prepared by:	Signature:	
Title: Harvest Planner	Date:	27/05/10.
EXTERNAL AUTHORITY NOTIFICATION	IZ	
(To be completed by the person who originally prepared the Plan and who must attach the relevant notifications to the office copy of the Harvesting Plan.)	jinally prepar f the Harvest	ed the Plan and who must attach the ting Plan.)
Notification to DECC.		
Name of Authority. Date of Notification by email.	fication	
DECC		
REGIONAL APPROVAL		
I note notification of this Harvesting Plan to the above-mentioned authority, together with the amendments that have been included in the Final Plan.	to the above the Final Pla	-mentioned authority, together with the n.
This Harvesting Plan comprises pages 1 - 20 attached, the Roading Plan (Appendix 1), the Burning Plan (Appendix 2), the photos of <i>Correa Baeuerlenii</i> (Appendix 3), locality map and	- 20 attached Correa Bae	This Harvesting Plan comprises pages 1 - 20 attached, the Roading Plan (Appendix 1), the Burning Plan (Appendix 2), the photos of <u>Correa Baeuerlenii (</u> Appendix 3), locality map and the
Harvesting Plan Operational Maps marked and referenced to this Harvesting Plan. This is Harvesting Plan No HP_ED_2051_2052_10.	ed and refere _10.	enced to this Harvesting Plan. This is
I approve the issue of this Harvesting Plan subject to any amendments and endorsements may be made following notification to the Department of Environment and Climate Change	in subject to Department	I approve the issue of this Harvesting Plan subject to any amendments and endorsements that may be made following notification to the Department of Environment and Climate Change.
Approved by:	Signature:	**
Title: Regional Manager	Date:	
OPERATION COMMENCEMENT DATE:		
OF ENATION COMMENCEMENT DATE.		



FORESTS N.S.W.

SOUTHERN REGION - EDEN

ROAD WORKS PLAN

COMPARTMENTS 2051 & 2052

MURRAH S.F. No. 140

Date:	Date:
Signature	Signature
Approved by: Regional Manager	Prepared by:

in the Roading Plan. only. Final decisions of drainage structure placement in the field must be determined by the SFO according to EPL specifications. Any alterations and the reasons why must be recorded Note: The recommended drainage structures and spacings in this roading plan are indicative

Road Name: Murrah River Rd

Roading Plan - Existing Road Compartment / Coupe: 2051/1



Assessor / date: 31/01/05

Road Assessment	FNSW 1	Are there any borrow / gravel pits to be used & are they stable?	Z
Length to be used / reopened / realigned (m)	700m	Site specific spoil management	As required flatten seed and mulch
Max. pavement width (m)	5m	Types of existing road drainage	Relief pipes and mitre drains
Max. clearing outside road prism (m) 2m	2m	Spacing of road drainage comply with EPL?	Currently does not comply
Max road grade / dist if > 10 degrees 8 degrees	8 degrees	Max. height / length / condition of batters	3/300m/Stable
Site specific techniques to lower	Not applicable	Condition of existing drop down structures	Not applicable.
Maximum ground slope	24 degrees	Site specific techniques for soil erosion & sediment control	Install drainage at spacing according to
Feature	Works Required	Final Road Use: Retain	
Pavement	Nil works required	Start Date:	Finish Date:
Roadside Clearing	As required and in accordance with EPL		
Gravelling	Not required		
Drainage	Install drainage structures in accordance with Sch 5 of EPL. On completion of use permanent trafficable rollovers to be installed and ensure drainage is in effective working order. Logging debris to be removed from table and mitre drains. As above.		
Erosion Control	As above.		

Roading Plan - Existing Road Compartment / Coupe: 2051/1 & 2

Assessor / date: 05/05/10

Road Name: 2051-6 Road

Road Assessment	Contractor	Are there any borrow / gravel pits to be used & are they stable?	N:
Length to be used / reopened / realigned (m)	3230m	Site specific spoil management	As required flatten seed and mulch
Max. pavement width (m)	4m	Types of existing road drainage	Rollovers and mitre drains.
Max. clearing outside road prism (m) 2m	2m	Spacing of road drainage comply with EPL?	Currently does not comply
Max road grade / dist if > 10 degrees 9 degrees	9 degrees	Max. height / length / condition of batters	2m/775m/Stable
Site specific techniques to lower grade	Not applicable	Condition of existing drop down structures	Not required. Batters stable & >70%
Maximum ground slope (degrees)	22 degrees	Site specific techniques for soil erosion & sediment control	Install drainage at spacing according to EPL specs.
Feature	Works Required	Final Road Use: Retain	
Pavement	Nil works required	Start Date:	Finish Date:
Roadside Clearing	As required and in accordance with EPL		
Gravelling	Not required		
	Where road grade <5° install rollovers or mitre drains or where		
Drainage	road grade >5° install rubberflaps in accordance with Schedule 5 of		
	the EPL. On completion of use		
	permanent trafficable rollovers to be installed and ensure drainage		
Erosion Control	As above		

Road Name: Murrah River Rd

Roading Plan - Existing Road

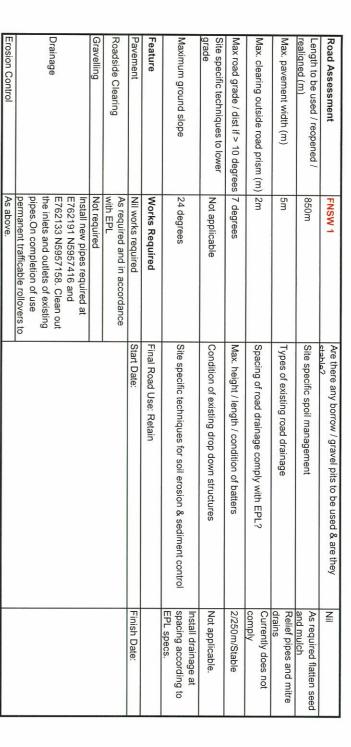
Compartment / Coupe: 2052/2 & 3

FORESTS

Form 13A

Assessor / date:

31/01/05



Roading Plan - Existing Road Compartment / Coupe: 2052/2

Assessor / date: 31/01/05

Road Name: 2052-5 Road

Road Assessment	Contractor	stable?	N.
Length to be used / reopened / realigned (m)	1680m	Site specific spoil management	As required flatten seed and mulch
nt width (m)	4m	Types of existing road drainage	Mitre drains
Max. clearing outside road prism (m) 2m		Spacing of road drainage comply with EPL?	Currently does not comply
Max road grade / dist if > 10 degrees 10 degrees	10 degrees	Max. height / length / condition of batters	1m/100m/Stable
Site specific techniques to lower			Not required. Batters
	Not applicable	Condition of existing drop down structures	stable & >70%
grade			vegetation as per EPL.
Maximum ground slope (degrees)	15 degrees	Site specific techniques for soil erosion & sediment control	Install drainage at spacing according to
			EPL specs.
Feature	Works Required	Final Road Use: Retain	
Pavement	Nil works required	Start Date:	Finish Date:
Roadside Clearing	As required and in accordance with EPL		
Gravelling	Not required		
	Where road grade <5° install rollovers or mitre drains or where		
	road grade >5° install rubberflaps		
Drainage	in accordance with Schedule 5 of		
	the EPL. On completion of use		
	permanent trafficable rollovers to		
	be installed and ensure drainage		
Erosion Control	As above		

Road Name: 2052-6 Road

Roading Plan - Existing Road Compartment / Coupe: 2052/2



6		Are there any borrow / gravel pits to be used & are they	K 177
Today Dadgament	Colitiactor		2
Length to be used / reopened / 5	580m	ecific spoil management	As required flatten seed and mulch
Max. pavement width (m) 4	4m	Types of existing road drainage	Rollovers and mitre drains
Max. clearing outside road prism (m) 2m		Spacing of road drainage comply with EPL?	Currently does not comply
Max road grade / dist if > 10 degrees 7 degrees		Max. height / length / condition of batters	1m/100m/Stable
Site specific techniques to lower			Not required. Batters
7	Not applicable	Condition of existing drop down structures	stable & >70%
grade			vegetation as per EFE.
Maximum ground slope (degrees) 1	17 degrees	Site specific techniques for soil erosion & sediment control	Install drainage at spacing according to EPL specs.
Feature	Works Required	Final Road Use: Retain	
Pavement	Nil works required	Start Date:	Finish Date:
Roadside Clearing A	As required and in accordance with EPL		
Gravelling	Not required		
Drainage Drainage LL Erosion Control A	Where road grade <5° install rollovers or mitre drains or where road grade >5° install rubberflaps in accordance with Schedule 5 of the EPL. On completion of use permanent trafficable rollovers to be installed and ensure drainage is in effective working order. Logging debris to be removed from table and mitre drains. As above		

Road Name: 2051-1 Roads
Works responsibility: Contractor

Roading Plan - Road Construction Compartment / Coupe: 2051/1 Assessor / date: 07/02/2005



	Finish Date	Start Date	Road Name
		Retain	Final road use
	No additional instructions required as there are no crossings involved.	Yes (Dispersible soils)	Mass movement / dispersible soils
		Seed & mulch as required	Soil stabilisation techniques of disturbed areas
		As per EPL Sch.5 H36	Drop down & dissipater required
		As per EPL Sch. 5, B5, C15, C17, C19 & C20	Stabilisation assessment intervals
		energy dissipation	
		efficient sediment trapping &	techniques
		stable surface which provides	Soil erosion / sediment control
		Drainage cutlets must drain ente	
		As per EPL Sch. 5, Section C, Table 1	Spacing of road structures to be installed
		5 Table 1 of the EPL	
		degrees. SFO to measure & mark in the field in accordance to Sch.	Recommended road drainage type
		300000000000000000000000000000000000000	
		supplemented with silt fencing,	erosion/ sediment control device to
		Natural surrounding vegetation	Type of sediment trapping / soil
		65	Max length of batters (m)
		<1m	Max. height of cut / fill batters (m)
		13	>30m?)
		mana wasan w	>10m?)
		4 degrees	Max. road grade (length road
		7	Max. width of road prism (m)
		70	Road Length (m)
		2051-1 Rd Specs	
/ Materials			
Additional instructions		Road Specifications	Features

Roading Plan - Road Construction Compartment / Coupe: 2051/1

Form 13B



Assessor / date: 04/01/2005

Road Name: 2051-2 & 3 Roads Works responsibility: Contractor

	Finish Date	Start Date	Road Name
	Retain	Retain	Final road use
No additional instructions required as there are no crossings involved.	Yes (Dispersible soils)	Yes (Dispersible soils)	Mass movement / dispersible soils
	Seed & mulch as required	Seed & mulch as required	Soil stabilisation techniques of disturbed areas
	As per EPL Sch.5 H36	As per EPL Sch.5 H36	Drop down & dissipater required
	As per EPL Sch. 5, B5, C15, C17, C19 & C20	As per EPL Sch. 5, B5, C15, C17, C19 & C20	Stabilisation assessment intervals
	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation	Soil erosion / sediment control techniques
	As per EPL Sch. 5, Section C, Table 1	As per EPL Sch. 5, Section C, Table 1	Spacing of road structures to be installed
	Rollovers or mitres for < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	Rollovers or mitres for < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	Recommended road drainage type
	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required	Type of sediment trapping / soil erosion/ sediment control device to be used during construction
	140	110	Max length of batters (m)
	1m	1m	Max. height of cut / fill batters (m)
	19 degrees	15 degrees	Max. ground slope (length road >30m?)
2051-3 Rd estimated 1 rubberflap	5 degrees	3 degrees	Max. road grade (length road >10m?)
	7	7	Max. width of road prism (m)
	140	110	Road Length (m)
	2051-3 Rd Specs	2051-2 Rd Specs	
/ Materials		Road Specifications	Features
Additional instructions			

Roading Plan - Road Construction Compartment / Coupe: 2051/1 Assessor / date: 07/02/2005

Road Name: 2051-4 & 5 Roads
Works responsibility: Contractor

			Additional instructions
Features	Road Specifications	ŭ	/ Materials
	2051-4 Rd Specs	2051-5 Rd Specs	
Road Length (m)	200	390	
Max. width of road prism (m)	7	7	
Max. road grade (length road >10m?)	13 degrees (30m)	9 degrees	To avoid oldgrowth and requirement for a crossing.
Max. ground slope (length road >30m?)	17 degrees	18	ı
Max. height of cut / fill batters (m)	1m	<1m	
Max length of batters (m)	150	100	
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	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required	
Recommended road drainage type	Recommend rubberflaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	Recommend rubberflaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	2051-4 Rd estimated 3 rubberflaps 2051-5 Rd estimated 6 rubberflaps
Spacing of road structures to be installed	As per EPL Sch. 5, Section C, Table 1	As per EPL Sch. 5, Section C, Table 1	
Soil erosion / sediment control	Drainage outlets must drain onto stable surface which provides	Drainage outlets must drain onto stable surface which	
	energy dissipation		
Stabilisation assessment intervals	As per EPL Sch. 5, B5, C15, C17, C19 & C20	As per EPL Sch. 5, B5, C15, C17, C19 & C20	
Drop down & dissipater required	As per EPL Sch.5 H36	As per EPL Sch.5 H36	
Soil stabilisation techniques of disturbed areas	Seed & mulch as required	Seed & mulch as required	
Mass movement / dispersible soils	Yes (Dispersible soils)	Yes (Dispersible soils)	No additional instructions required as there are no crossings involved.
Final road use	Retain	Retain	
Road Name	Start Date	Finish Date	

Roading Plan - Road Construction Compartment / Coupe: 2052/2 Pads Assessor / date: 28/01/2005

Form 13B

FORESTS

Road Name: 2052-1 & 2 Roads
Works responsibility: Contractor

	Start Date	Finish Date	Road Name
	Retain	Retain	86
No additonal instructions required as there are no crossings involved.	Yes (Dispersible soils)	Yes (Dispersible soils)	Mass movement / dispersible soils
	Seed & mulch as required	Seed & mulch as required	Soil stabilisation techniques of disturbed areas
	As per EPL Sch.5 H36	As per EPL Sch.5 H36	Drop down & dissipater required
	As per EPL Sch. 5, B5, C15, C17, C19 & C20	As per EPL Sch. 5, B5, C15, C17, C19 & C20	Stabilisation assessment intervals
	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation	Soil erosion / sediment control techniques
	As per EPL Sch. 5, Section C, Table 1	As per EPL Sch. 5, Section C, Table 1	Spacing of road structures to be installed
2052-1 Rd estimated 3 rubberflaps 2052-2 Rd estimated 4 rubberflaps	Recommend rubberflaps if >5 degrees. Rollovers or mitres if < Recommend rubberflaps if >5 degrees. Rollovers or mitres if < Recommend rubberflaps if >5 degrees. Rollovers or mitres if < rubberflaps or = 5 degrees. SFO to measure & mark in the field in accordance accordance to Sch. 5 Table 1 of the EPL 2052-1 Rd estimated 3 2052-2 Rd estimated 4 2052-2 Rd estimated 4	Recommend rubberflaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	Recommended road drainage type
	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required	Type of sediment trapping / soil erosion/ sediment control device to be used during construction
	230	40	Max length of batters (m)
	>1m	<1m	Max. height of cut / fill batters (m)
	17 degrees	12	Max. ground slope (length road >30m?)
	10 degrees	12 degrees (30m)	Max. road grade (length road >10m?)
	7	7	Max. width of road prism (m)
	230	150	Road Length (m)
	2052-2 Rd Specs	2052-1 Rd Specs	
/ Materials		Road Specifications	reatures
Additional instructions		000000000000000000000000000000000000000	000



Roading Plan - Road Construction Compartment / Coupe: 2052/2 Assessor / date: 28/01/2005

Road Name: 2052-3 & 4 Roads
Works responsibility: Contractor

Road Name	Final road use	Mass movement / dispersible soils	Soil stabilisation techniques of disturbed areas	Drop down & dissipater required	Stabilisation assessment intervals	Soil erosion / sediment control techniques	Spacing of road structures to be installed	Recommended road drainage type	Type of sediment trapping / soil erosion/ sediment control device to be used during construction	Max length of batters (m)	Max. height of cut / fill batters (m)	Max. ground slope (length road >30m?)	Max. road grade (length road >10m?)	Max. width of road prism (m)	Road Length (m)			Features
Finish Date	Retain	Yes (Dispersible soils)	Seed & mulch as required	As per EPL Sch.5 H36	As per EPL Sch. 5, B5, C15, C17, C19 & C20	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation	As per EPL Sch. 5, Section C, Table 1	Recommend rubberflaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	Natural surrounding vegetation supplemented with silt fencing, seed and mulch as required	415	>1m	16 degrees	11 degrees (30m)	7	420	2052-3 Rd Specs	Toda openionion	Road Specifications
Start Date	Retain	Yes (Dispersible soils)	Seed & mulch as required	As per EPL Sch.5 H36	As per EPL Sch. 5, B5, C15, C17, C19 & C20	Drainage outlets must drain onto stable surface which provides efficient sediment trapping & energy dissipation	As per EPL Sch. 5, Section C, Table 1	Recommend rubberflaps if >5 degrees. Rollovers or mitres if < or = 5 degrees. SFO to measure & mark in the field in accordance to Sch. 5 Table 1 of the EPL	Natural surrounding vegetation supplemented with silt fencing. seed and mulch as required	420	>1m	27	11 degrees (50m)	7	420	2052-4 Rd Specs		
		No additonal instructions required as there are no crossings involved.						2052-3 Rd estimated 7 rubberflaps 2052-4 Rd estimated 7 rubberflaps	-				To avoid rock.				/ Materials	Additional instructions



FORESTS N.S.W.

SOUTHERN REGION - EDEN

POST-HARVEST BURNING PLAN

HP_ED_2051_2052_10

COMPARTMENTS 2051 & 2052

MURRAH S.F. No. 140

POST-HARVEST BURNING PLAN



6.08.01 Bush Fire Mapping SymbolsDTG refers to *Date Time Group* which uses the two digits for the date and 24 hour time, eg 10:51hrs on 4 November would be: **04 1051**

NAME		SYMBO	ř		NOTES	
PREDICTED (fire edge)	1	1	\ \ \	Show DTG		
GOING (fire edge)			•	Show DTG		
CONTAINED (fire edge)	1		(Show DTG		
PROPOSED (control line)	××-	××××	× ×	Draw on far side of feature	side of feat	ure
COMPLETED (control line)	×	x+x+x+x+x+	×+ +×+	Show DTG		
PROPOSED (backburn)	-	- - -	-	Draw on near	side	of feature
COMPLETED (backburn)		 - -	-	Show DTG		
BACKBURN BURNING IN	[<u> </u>	 	7	Lines show depth of burn at DTG	depth of bu	rn at DTG
RED - FIRE E	BLACK - C	CONTROL L	LINES	BLUE - WRI	WRITING & SYI	SYMBOLS
△ Strategic or Tactical C	Command, Cor & Coordination	Command, Control & Coordination	☐ Logistic	Logistics Related	Assets to Protected	b be
Fire Origin	Red	\otimes	Show DTG	עם		
Fire Direction	Blue	⊤	Show DTG	ν.		
Wind Direction	Blue	∀	Show DTG	U		
Spot Fire	Red	*	Isolated fir	Isolated fire ahead of main fire	ain fire	
Aerial Ignition	Red		Burnt area	Burnt area (it old, show month and year) Proposed path to be treated	month and	year)
Divisional Boundary	Blue	\times	Use geogr	geographical names	Š	
Sector Boundary	Blue	00000	Use alpha	Use alphabetical names	0,	
Refuge Area	Blue	₽,	Escape Ro show safe exit)	Escape Route (Add arrow to show safe exit)	o Blue	
Control Centre (Incident Management Team location)	Blue	(3)	Staging Area (Where are prepared or available)	Staging Area (Where resources are, prepared or available)	rces Blue	SA
Divisional Command	Blue	8	Base Camp	ō	Blue	(B)
Sector Command	Blue	(60)	Airbase (Fixed wing ar	Airbase (Fixed wing and/or helicopter base)	_{se)} Blue	AIR
Helipad	Blue	•	Water Point Helico	Water Point Helicopter (Helicopter water supply)	Blue	H
Water Point Vehicle (Firefighting water supply)	Blue	×	Aboriginal	Aboriginal Site or Artifacts	cts Blue	\bar{\phi}
Ambulance Location	Blue	AMB	Endangered Flora	ed Flora	Blue	
Threatened Property	Blue	\Diamond	Endangered Fauna	ed Fauna	Blue	\$
Historic Site (Building or Structures)	Blue	\$				
	1					

The use of colours is optional.

Bush Fire Co-ordinating Committee (Approved) Incident Management Procedures 6.08.01 Bush Fire Mapping Symbols Version 1.3

Page 1 of 1 05/04/04

2

PLANNING INFORMATION

LGA: Bega Valley

Fuel Management Zone & Proposed Burn Summary

Refer to sections 2 & 3 of the harvest plan document for details Season:

Autumn Winter

Zone: 3B(Post-Harvest)

REGIONAL BURNING GUIDELINES

Max Temp (°C): 25 Min RH (%): 30 Max Wind Speed (km/h): < 20 Southerly aspect < 15 Northerly aspect

Max BKDI: < 70 Max FDI: 7 (subject to area assessment). Scorch Height: 0.6 x dominant tree height – Post Log 10m – Broad Area

Max Fuel Moisture Range: 16-40% Max Rate of Spread: < 300m/hr. Average Flame height: up to 4m – Post Log <1 – 2m – Broad Area

Fuel Reduction Objectives: 60-80% of net harvest area burnt. **Reduce fine fuels to:** manageable levels - Post Log 4 – 8t/ha

BURN AREA INFORMATION

Integrated:

Fuel loads: 50-150 tons per hectare of logging slash, 10 – 20 tons per hectare in between tree heads

Fuel arrangement: Multi-tiered structure (litter, grasses, shrubs, eucalypt regeneration and mature trees)

Terrain: Refer to operational maps

Time since last burn: Unknown

Thinning:
Fuel loads: 50-100 tons per hectare of logging slash.

Fuel arrangement: Logging slash under retained regrowth.

Terrain: Refer to attached operational maps

Time since last burn: Unknown

IMPORTANT BURNING PRESCRIPTIONS

- **PATTERNS** A small test burn must always be lit prior to main burn. This will assist in determining FIRE BEHAVIOUR and IGNITION
- Seek information from Harvesting SFO on regrowth excluded burn areas
- . Minimise fire intensity in retained / thinned stands.
- Seek information from Harvesting SFO on excluded areas.
- natural spread, a carefully planned ignition pattern and sequence must be applied Where it is considered likely that fire applied externally will enter exclusion zones or national park through
- Sections will be lit by drip torch to a determined ignition pattern.
- Areas will generally be burnt from ridge tops down and into the wind to minimise excessive fire behaviour

SPECIAL PRESCRIPTIONS AREAS

- 2051. Post log burning is to be excluded from these zones. See Section 5a Forest Management Zone Classification. Forest Management Zone 2 W and 3aW Exclusion Zones are located on the eastern boundaries of of Compartment
- 2052. The national park boundary should not be crossed. National park estate is located to the west of Murrah River Road on the western boundary of Compartments 2051 and
- areas and the 20 m exclusion zones around the rainforests. Areas of rainforest are located within Compartments 2051 and 2052. Post operation burning is to be excluded from these
- excluded from this area An area of old growth forest community is located within Coupe 1 of Compartment 2051. Post operation burning is to be
- activities should be avoided to the greatest extent possible. Refer to operational map and SFO's map for locations. Where Chefs Cap Correa have been located within Compartment 2051, damage to the Chefs Cap Correa during forestry
- tree are to be avoided. Yellow -bellied Glider feed trees were located within Compartment 2051. Damage to retained Yellow-bellied Glider feed
- the harvesting and thinning operations Please refer to SFO's harvest plan and maps for additional flora and fauna features that may have been located during

BURN OBJECTIVES

- To reduce fuel loads to manageable levels.
- A burn coverage within the remaining areas should target between 40-60%
- To contain fire within designated boundaries.
- To observe and record data, assisting in future high fuel load and advanced regrowth area burns.
- To minimise crown scorch; not exceeding 10% of dominant and co-dominant crowns
- To minimise defect damage to retained / thinned stands

ENVIRONMENTAL PRESCRIPTIONS

FLORA AND FAUNA:

Refer to sections 7 and 7.2 of the Harvest plan document. H & R trees should be raked around if the risk of burning is high. Logging slash collected around retained trees should not be burnt.

SOIL, WATER & AQUATIC HABITAT:

Refer to sections 7b and 8 of the Harvest plan document

- Preferred months of burn April to September
- Fuel moisture differentials will be utilised to minimise impacts upon drainage features within the burn area

ABORIGINAL CULTURAL HERITAGE:

Refer to section 6 of the Harvest plan document. Significant sites, e.g. midden sites, should be raked around to prevent fire damage. Where practically possible, burning of scattered artefacts should be avoided.

CONTROL AND STRATEGY

CONTROL LINES:

Check for trees that could burn down and fall over any boundary roads and wet down or rake around as necessary	Cpt 2052: 2052-6 Road	Cpt 2052: 2052-5 Road	Cpt 2052: Murrah River Road	Cpt 2051: 2051-6 Road	Cpt 2051: Murrah River Road	Description of each control line	EXISTING
oundary roads and wet down or rake around as	Ensure road is clear of fine fuel.		Description of Work Required				
s necessary						Yes /No	Completed

7707077	, , , , , , , , , , , , , , , , , , , ,	
PROPOSED	Description of Work Required	Completed
Description of each control line		Yes /No
Old Growth area	Where practicable, extraction tracks should be	
	constructed close to the boundaries of the	
	harvested area to act as bare earth breaks around	
	post-harvesting burns. Where this is not practical,	
	the SFO is to assess the need for a bare earth	
	break to be constructed close to harvesting	
	boundaries and notified the Harvesting Team	
	Leader.	
Rainforest & exclusion zone	Existing snig tracks, roads, moisture differentials,	
	ignition patterns and constructed hand trails should	
	be utilised to avoid fire encroachment into this zone	
	as far as practicable.	
Cpt 2051: 2051-1 Road		
Cpt 2051: 2051-2 Road		
Cpt 2051: 2051-3 Road		
Cpt 2051: 2051-4 Road		
Cpt 2051: 2051-5 Road		
Cpt 2052: 2052-1 Road		
Cpt 2052: 2052-2 Road		
Cpt 2052: 2052-3 Road		
Cpt 2052: 2052-4 Road		

Smoke / Hazard Reduc	SMOKE HAZARD AND MANAGEMENT: http://www.bom.gov.au/general/reg/smoke/nsw/index.shtml	smoke/nsw/index.shtml (☑ tick to indicate)	
Smoke Dispersion Fore	YES \square	(tick to indicate)	
Safety Considerations (pre-burn)	DAY 1	Y DAY	DAY DAY
Personnel	Names of fire crew documented daily.	14	- 8
Visitors on site V	Visitor on site induction carried out		
Neighbours I	Documented in plan		
control	Traffic control signs to regulate traffic if required		
Smoke management: A	Assessment of prevailing winds at the time of burn. Road side signs warning of smoke hazard.		
	Supervisor to initial		
Pre-burn preparation	Pre-burn preparation activities and responsibilities.		
Activity	Specifications and tasks	Responsibility Sign (inc date)	Signature
Fuel monitoring	Regular monitoring prior to burning		
Weather monitoring	Conducted prior to and during burning operations.		
Trail preparation ▶ D3	Mineral earth control lines prepared prior to burning to contain fire within designated burning block.		
Hand tools			
Neighbour liaison	Notification and communications documented.		
Liaison with fire & emergency authorities	"as above"		
Media releases	To advise local community of SF burning activities.		
Radio station notifications	"as above"		
Equipment	Ensure all required equipment is available.		
Communications	"as above"		
Visitor Safety	Burn is sign posted. All visitors to report to burn supervisor immediately		
Burn approval	Daily burn approvals given by delegated officers		
	NOTIFICATION & RESOURCE REQUIREMENTS	ENTS	
Apiarists			
	NOTIFICATION REGISTER		
RFS (Rural Fire Service)			

Burning Plan 07-05-2010 6

Owner	NEIGHBOURS: (F		Name
Postal Address	NEIGHBOURS: (Refer to compartment planning folder for details prior to burning)	FCO	Position
Lot / Plan	folder for details pri		Phone Number
Phone	or to burning)		er
Notification Reply Letters sent Received			Notified
Received			

APIARISTS: (Refer to compartment planning folder for details prior to burning)

		Name	או ואומים לי (יופופו נס נטווקמו
		Site Number/s	Ar Initial 3: (There to compartment planning loider for details prior to parining)
		Phone Number	prior to purming)
		Notified	

DAILY CREW SMEACS BRIEFING SHEET

	- Schedule adequate rest breaks and set appropriate work pace pace	ı
	- Crew vehicles to have headlights and flashing beacons on where practicable	1
	 Safe parking of SF vehicles within the burn area and vehicle speeds during the burn 	ı
	- Location of safety zones, and escape routes	ı
	 Pre-burn safety actions including 'Smoke Hazard' sign locations, traffic control plan etc 	,
	- Location first aid kits and first aiders	1
	- Look up and look around procedure (for self and workmates)	r
	- Areas of likely tree or limb falling hazards (methods to identify/mark hazards)	1
	- Medical Emergency Evacuation Plan & Site Safety Plan	
	SAFETY	
	- Communications systems for fire-ground and command (UHF & VHF radios, mobile phones)	,
	- Chain of command (burn supervisor and sector bosses)	1
	CONTROL, COMMAND, COMMUNICATIONS	
	- Receiving forecast weather reports from office	ı
	- Reporting field fire weather to the office at regular times	1
	ADMINISTRATION	
	- End of burn debrief e.g. reporting areas requiring 'follow-up' patrols after burn	Ţ
	- Actions to be taken in the event of an escape e.g. to pause the light-up	1
	- Expected fire behaviour, trouble points and contingency plans plans	1
	- Maintain awareness of other burning crews (do not light up below other burning crews)	1
	- Progress reports at pre-designated times	
	- Personal and crew safety - buddy system when lighting up	1
	- Location and activity of other burning crews	r
	- Work down-slope, keeping below active fire (except where good fuel breaks occur)	1
	- Safe 'approved' lighting patterns and directions	,
	- Starting points, starting times, finish times (start 'down wind' if possible)	ı.
	- Division of burn area into 'Sections'	1
	- Plant and manpower resources (FNSW, RFS, DEC, others)	1
	EXECUTION	
	- Secondary aim/s should the HRB escape	
	$\overline{}$	
	 Site specific aims for sections of the HRB (eq. protection of patches of advanced regrowth. 	1
	- Overall aim of the hazard reduction burn	
	- Expected weather	
	Fuel Loadings and fire behaviour prescriptions for the HRB area watering points etc./	
	Burn area acteristics (e.g. terialit, futest cover, seriality e areas, etc.)	
	- Burn area to be treated (location, boundaries, control line types and exclusive areas)	1
1 2 3 4 5 6 /	SIUAIION	5110
brief		1
-		

y 8 - Burn SupervisorDateDate	Day 7 - Burn SupervisorDate
Date	Day 5 - Burn Supervisor Date Date
.Date Day 4 - Burn SupervisorDateDate	:
DateDay 2 - Burn SupervisorDate	Day 1 - Burn Supervisor Date
Visitors to the site are inducted into the SSP □□□□□□□□□□□□□□□□□□□□□□□□□□□□	 Visitors to the site are inducted into the SSP
Ensure crews nave access to supplies of grinking water	 Ensure crews nave access to supplies of drinking

EMPLOYEE IDENTIFICATION

Crew Member	Crew Leader	Crew Leader	Burn Supervisor	Incident Controller	EMPLOYEE							
												NAME
												PROOF OF ACCREDITATION (Eg. FNSW RECORDS)
												DATE
											ī	SUPERVISOR OR RELEVANT AGENCY SIGNATURE

Personnel and equipment requirements:	ent requiremen	nts:		
Resource	State Forests	NPWS	Brigades	SFO Signature
Incident Controller				
Crew Leaders				
Crew Members				
Tankers	1			
Slip – on Units	1+			
Dozer	n/a			
Helicopter	n/a			
Radios – handheld UHF	1 per person			
Weather monitoring equip.	1 per crew			

Burning Operations Record

Forecast Weather and Indices (Obtain from Office)

See attached daily weather forecasts and relevant indices obtained from the Bureau of Meteorology

Burn Site Weather Readings

Take daily on site readings (hourly if possible) and note un-forecast weather changes.

which was the state of the stat								
COMMENTS	%		(km/h)	Direction	(%)	(°C)	Time	Date
	FMC	FDI	Wind Sp.	Wind	RH	Temp		

				Date			
		1		Time (hrs)			
				(m)	Flame Height	PREDICTED	
				(m/hr)	ROS		Ξ
				Method	Assessment		FIRE BEHAVIOUR
				(average)	Flame Height	ACTUAL	/IOUR
				(m/hr)	ROS		
					Comments		

Incendiary Capsules used:	sd: (aerial ignition only)
	Ignition details – DATE (s)
Type: Aerial / Ground I	Type: Aerial / Ground Method: Contour / Ridge / Road edge / Top disposal Pattern: Line / Spots
Incendiary Capsules used:	d:(aerial ignition only)

Type: Aerial / Ground

Type: Incendiary Capsules used: Aerial / Ground (aerial ignition only)

Ignition details – DATE/s Type: Aerial / Ground Method: Contour / Ridge / Road edge / Top disposal	details - DATE/s
<u>~</u>	
POST BURN ASSESSMENT	
Estimated burn coverage (% of net area):%	%
Estimated burn coverage:ha	ha
Fine fuel reduced to an average of :t/ha	t/ha
Estimated area of crown scorch : %	%
OPERATIONAL	OPERATIONAL PERFORMANCE REVIEW
Follow in action required 2	Vos/No
Burn contained within planned boundaries?	Yes/No
Burn coverage objective met?	Yes/No
Fine fuel reduction objective met?	Yes/No
Environmental prescriptions met?	Yes/No
Threatened Species License conditions met?	Yes/No
Fisheries License conditions met? Remedial Action required (if anv):	Yes/No
Remedial works certified complete.	
Work Supervisor	Date:
Comments:	
Attach additional pages are suited.	
Attach additional pages as required	

Burning Plan 07-05-2010 10

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Southern Region – (
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APPENDIX 3: PHOTOS OF CORREA BAEUERLENII







