FORESTY CORPORATION of NEW SOUTH WALES
CENTRAL REGION

HARVESTING PLAN NATIVE FOREST

Ingalba State Forest - Compartments 30, 33 & 34

Certification

This plan has been prepared in accordance with the Integrated Forestry Operations Approval issued under the Forestry and National Park Estate Act 1998.

Prepared By:	Dirk van Dijk Harvest Planner	Reviewed by:	Brent Bailey HP Team Leader
Signature		Signature	
Date	30/1/2014	Date	7/03/14
Approved By:	Kathy Jones Regional Manager		
Signature			
Date	10/3/14		

This approval includes the Harvest Plan Operational Map (HPOM) with the corresponding approval date displayed on the map, verifying it as the final approved version

Description of Proposal

This is a plan for Integrated Harvesting of Native Forest and associated road works.
It is not a Scheduled Operation and therefore will not be licensed under the EPL.

Attachment 1: Site Safety Plan describes safety requirements and Medical Emergency Evacuation Plan (MEEP) for this harvesting operation.

Attachment 2: Operational Roadworks Plan.

Attachment 3: Standard Harvest Plan Conditions for Native Forest Operations

Area Identification and Yield Estimates

State Forest	Compartment/s	Region	Management Area	Price Zone	Harvest Plan ID
Ingalba	30, 33 & 34	Central	Kempsey	Kempsey	10530

	Cpt 30	Cpt 33	Cpt 34	Totals
Cpt Plan ID	20684	20685	20686	
Gross Area (ha)	289	300	230	819
Net Harvest Area (ha)	245	263	206	714
Net harvestable Area(ha)	120	160	150	430
Estimated Yield (m3)	2600	3500	3300	9400

Silviculture and Harvesting Prescriptions

These compartments are comprised mostly of medium quality dry Blackbutt forest and mixed Grey Gum, Grey Ironbark, White Mahogany dry hardwood with a high proportion of residue. The Blackbutt forest has a high proportion of other species in the mix. There is a mixture of mature and regenerating patches.

Silvicultural Planning

Markets are currently constrained with limited residue markets. Salvage, pole and quota sawlogs should be removed with light to medium STS.
Marking will be for retention only, being seed trees and trees required to be retained under the TSL prescriptions. Areas for future treatment are indicated on the Harvest Plan Operational Map (HPOM)

Harvesting Prescription

Stand type	% of net area	Example	Treatment (%STS,AGS,THIN)
Dry Blackbutt	60%	Areas along McKays Road and Peters Road	STS light to medium. Harvest to remove marketable quality and stand end point stems.
Dry hardwood	30%	Areas along Fig Tree Road	STS light to medium. Harvest to remove marketable quality and stand end point stems.

Notes:

1. Retained seed trees must be mature, have good form and large, healthy crowns. Do not retain suppressed trees as seed trees.
2. Unless otherwise directed by the SFO, areas between seed trees should be treated to aid regeneration, including removal of shade-tolerant stems as far as practicable under the conditions of the IFOA and as market conditions allow.

IFOA Limits

Max. number of AGS openings	N/A
Thinning BA limit (60%)	N/A
STS BA limit (40%)	A large number of pre-merchantable trees, hollow-bearing trees and some sections of native forest will be retained unlogged within the NHA to ensure BA limits are not reached. Two areas are indicated on the HPOM as "Future Treatment Areas". The Harvest Planning Forester must be contacted if changes in market conditions allow the sale of large amounts of residue material.

Special Conditions

Critical boundaries

Ngambaa Nature Reserve adjoins the western boundary of compartments 30 and 33. Fig Tree Road and Stockyard Creek Road are considered the boundary between NR and SF. No logging is permitted on the Nature Reserve side of these roads or any area displayed on the HPOM as NR.

Traffic Management

All traffic is to exercise extreme caution as many public vehicles use these roads.

A number of private properties are accessed via these forest roads. These roads must remain trafficable during the operation.

Dirt and debris deposited onto sealed roads must be removed immediately.

Forest Management Zoning

These compartments contain the following FMZ's;

- **FMZ3A (Exclusions)** Exclusions within the stand include rainforest.
- **FMZ 4 (General Harvesting Prescription)-** available for harvesting. Normal prescriptions apply.
- **FMZ 8 (Further Investigation)-** The FMZ 8 areas occur as modeled stream exclusion zones and can be harvested and managed under normal harvesting prescriptions and EPL prescriptions *not displayed on HPOM* .

Rutting

Maximum allowable soil disturbance limits shall be:

On log dumps a depth of 25cm and a length of 10m and

On snig and/or extraction tracks a depth of 20 cm and a length of 10m.

(See Forest Practices Circular 2008/04)

Cultural heritage

An Aboriginal site survey was performed by Forests NSW Aboriginal Cultural Heritage officer in 2012. One area in compartment 33 has been marked for exclusion

There are no known sites of European heritage within these compartments.

Contact the SFO and ACHO if further sites are uncovered during harvesting operations.

Ecologically Endangered Communities (EEC)

Potential EEC areas have been investigated. No evidence of EEC was detected over the area designated as net harvest area in this harvest plan. Elevation ranges from 230m to 430m ASL. If during the course of mark up you identify areas that you feel may possibly be EEC, contact the regional ecologist prior to any activities occurring in those areas.

Flora and Fauna

Refer to the Threatened Species Licence (TSL) Booklet for Conditions.

General TSL Prescriptions

- **SFO Mark Up Searches** – Conditions 5.1(h), 5.2 and 5.13 (general, koala and bird roost and nest searches) must be implemented. Koala star search triggers identified – HIGH USE AREA DETERMINED.
- **Tree Retention** – Regrowth Zone. Conditions 5.6 (c), (d), (e), (f) and (g), must be applied. - Glossy Black Cockatoo feed trees.
- **Riparian Habitat Protection** – Condition 5.7 must be applied.
- **Ground Habitat protection** – Condition 5.17. No commercial firewood collection permitted in these compartments (Spotted-tailed Quoll and Varied Sittella records).

Site-Specific Conditions, Exclusion Zones & Modified Harvest Areas

Mapped exclusion areas occur for the following. Site-specific conditions must be implemented

Boundary Type	TSL Condition Number	Prescription Name	Prescription Summary
1, Solid		Endangered Ecological Community	Mapped exclusion -Subtropical coastal floodplain, possible layer provided. Indicative layer must be used as exclusion boundary unless field assessment is undertaken.
2, Accidental	5.04	Rainforest	Mapped Exclusion
3, Machinery	5.13	Varied Sittella	Mapped Exclusion 20m on nest site if detected
3, Machinery	5.13	Little Lorikeet	Mapped Exclusion 30m on nest site
3, Machinery	6.20	Golden-tipped Bat	Mapped exclusion, 30 m buffer on mapped streams within 200 m of a records and no UMDL within 200m of a record. Revert to 10m UMDL EPL protection
3, Machinery	6.21 / 7b)xv	Large-footed Myotis	30m buffer on dams and permanent waterbodies
3, Machinery	6.23	Threatened Flora	Mapped exclusion, 20 m buffer on records, *Senna acclinis*
4, Limited	5.03	HCVOG	Mapped Exclusion
4, Limited	5.08	Ridge and Headwater Habitat	Mapped Exclusion
4, Limited	6.14	Koala High-use Area	Mapped Exclusion
4, Limited	6.15	Spotted-tailed Quoll - maternal den	Search for den and latrine sites. Apply exclusions with Regional Ecologist if detected.
5, Modified	6.14	Koala Intermediate Use	Tree retention requirements in all 3 compartments
5, Modified	6.17ii	Yellow-bellied Glider Tree Retention	Tree retention requirements, heard call detection
	6.27	Parsonsia dorrigoensis	Monitoring program – no monitoring plots established in these compartments

TSL Boundary Conditions

Boundary Type	Can Remove accidentally felled logs if at least one HQ log (1)	Groundcover Rehab/Removal Rules	Machinery entry 5m to fell HQ log in NHA away from protection zone (2)	6/200 Rule (3)
SOLID				
MACHINERY			√	
ACCIDENTAL	√	√		
LIMITED	√	√	√	√

√ - Condition applies

Soils and Water Protection – Refer to EPL Booklet & Standard Plan Conditions.

Site-specific EPL conditions

Elements	Conditions
Unmapped Drainage Lines	BMP for UMDL apply
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	2
Dispersible Soils	NO (isolated slight slaking)
Mass Movement	NO
Seasonal Harvesting Exclusions	NO
Seasonal Burning Exclusions	NA
Log Dumps	Refer relevant conditions for IHL
Snig Tracks	Refer relevant conditions for IHL
Roads	See schedule 5 of EPL Booklet
Rutting	On snig and/or extraction tracks a depth of 20 cm and a length of 10m. (See Forest Practices Circular 2008/04)
Dispersible Soils	See section 69 of Schedule 4 of the EPL

Legal Conditions

This operation must comply with:

- Standard Harvest Plan Conditions for Native Forest Operations in Central Region
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)
- State Forests of NSW Forest Practices Code - Part 2 Timber Harvesting in Native Forests 1999 and Forest Practices Code Part 4 Forest Roads and Fire Trails (1999).
- Integrated Forestry Operations Approval issued under part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended May 2003 including associated licences for Lower North East Region.
    - Threatened Species Conservation Licence (TSCL) issued under the Threatened Species Conservation Act (1995) as amended May 2003
    - Part 7 (Div 3) Fisheries Management Act (1994) as amended May 2003
- This operation is a non-scheduled operation under the Environment Protection Licence issued under section 55 of the Protection of the Environment Act 1997. This Harvesting operation including the roads and trails associated with harvesting are not licensed. All EPL conditions will be applied to harvesting operations, except for schedule 4 condition 6 relating to filter strips on unmapped drainage lines. The Best Management Practices detailed in Standard Harvest Plan Condition for Native Forest Operations in Central Region are to be applied to unmapped drainage lines.

Pre-Operational Briefing

I acknowledge that I have received a copy of the Harvesting Plan for Compartments 30, 33 & 34 Ingalba State Forest and that I have been briefed on the conditions of the Plan and understand the supervision and operational control requirements as explained to me by the Forest Planner or his/her delegate.

Position	Name	Signature	Date

Appendix 1 SFO Forms –

Regions include relevant SFO forms here, minimum standard is the SFO notes form, noting that records of dump usage, snig/extraction track crossing use and roads inspection are required under the EPL.

SFO NOTES

LOCATION SF: _____ CPT NO: _____

- This diary should record general daily events, SFO movements, Operations visited which are not otherwise recorded in detail elsewhere.

Date	Event	Initial

SFO Post Logging NOTES

LOCATION SF: _____ CPT NO: _____

Record any circumstances of significance relating to the harvesting of this compartment.
Please draw or include any annotations on an attached operation scale map.
Actual area harvested (record on map)
Give reasons for harvestable areas that were not harvested (e.g. Too steep, defective timber). Make reference to map.

Silvicultural treatment undertaken;

Treatment	Area Treated	Number of AGS gaps	Comments
Australian Group Selection			
Single Tree Selection			
Thinning			

Possible next cut (tick appropriate boxes)

Main product type	Anticipated volume		
	H	M	L
High quality large sawlog			
High quality small sawlog			
Low Value			
Poles/piles/girders			
Veneer			
Pulpwood/chipwood			
Habitat			
Non-merchantable			

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

Noxious or environmental weed problems; high levels of feral animal use.

Sites of soil erosion for attention.

Boundary compromised; neighbour issues resulting from logging or haulage.

_____

_____ ___

_____

_____ ___

Operation map errors for attention (e.g. forest type; roads) of appropriate staff i.e. GIS, Planner etc.