





## FORESTRY CORPORATION OF NSW - WESTERN REGION

## NATIVE FOREST HARVESTING PLAN No. WCc1312 Refer: FPC 2010/01

Ver. 3 Jun 2014 Page 1

### Ardlethan State Forest - Compartment 201

This plan has been prep	ared in accordance with the	Integrated Forestry Operations
Approval issued under th	e Forestry and National Park	Estate Act 1998. The Standard
		s in Western Region - South-
Western Cypress v.3 appl	y to this operation.	Warwick Brot
Prepared By: S Grallelis	Endorsed By: Ross Irvine	Approved By: Andrew O'Brien
Asst District Manager	Environment & Resources Mgr	Senior Manager Western
Signature Halleis	Signature	Signature
Date 9_/7/2014	Date /5_/_/2014	Date 17/2014
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South-Western Cypress IFOA Harvest Plan

#### **Description of Proposal**

White cypress sawlogs and green residue will be harvested under regulation of the Integrated Forest Operations Approval for South-Western Cypress Region.

The operation will use mainly mechanical harvesting and processing to produce logs and forward them to dumps. The logs will be removed from the forest by truck.

Natural regeneration is planned. No after-harvest burning or planting is proposed.

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

No construction, reopening or upgrading of roads or bush tracks is proposed. Prescriptions for maintenance of existing roads and tracks are specified below.

#### **Area Identification and Yield Estimates**

State Forest	Compartment/s	Region	Management Area	Plan Number
Ardlethan	201	Western	Narrandera	10612

COMPARTMENT	201	
Plan Compartment ID	20878	
Gross Area (ha)	189.2	
Net Harvest Area (ha)	104.4	
High Density Area (Y/N)	Yes	
Estimated Yield Cypress	600-800t	
Sawlog (m <sup>3</sup> or t)		
Estimated Yield Residue (t)	30	

#### **Silviculture and Harvesting Prescriptions**

The planning area has a long history of silvicultural treatment with reliable records going back to the 1900's.

The mature cypress stands within compartment 201were established during regeneration events in the 1890's. Their growth has been slow, due primarily to the dense stocking with little treatment. Incremental logging for sawlog occurred in the period 1956-59, with the western block fully logged in 1986/87.

Regeneration establishment was initially dense, but was then affected by rabbit activity and grazing. The cessation of grazing, the control of rabbits, and the harvesting disturbance have created conditions suitable for release and thinning harvest.

The area of each silvicultural treatment must be mapped and recorded in the Postlogging information section of this plan.

#### Silvicultural Planning

The 'release' operation is aimed at releasing established regeneration from competition with the mature over-storey. Once released, the stand will require thinning in the next 15-20 years.

The cypress thinning operation is aimed at reducing competing stems whilst concentrating growth on the retained, higher quality, future sawlogs. This stand will require further thinning in around 15-20 years.

#### **Harvesting Prescription**

Stand type	% of net area	Area (refer to HPOM for details)	Treatment Refer to Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3 for more detail.
Mature Cypress with adequate regeneration.	75%	Comp't 201	Release cypress silviculture.
Mature Cypress without regeneration	25% NHA	Comp'201	Thinning silviculture

The SFO will ensure that all relevant tree retention and silvicultural prescriptions are met during harvesting operations.

The operation must, as far as practicable, not damage individual plants of good form regeneration or sapling size of white cypress or ironbark, especially where there are few others nearby.

#### **Tree Marking**

The area will be tree marked for **retention**. The operation must, as far as practicable:

- For the allowed species, fall each tree not marked for retention, unless it clearly does not meet the product standard, and
- Not fall or damage trees marked for retention, or marked as boundary trees.

#### 4. Special Conditions

#### **Critical boundaries**

The Compartment is bounded by fences on all sides, with council roads and state highway adjacent to some fences. Refer to the Operational map for more detail. Marking of the compartment boundary is not proposed.

Private Property – All boundary fences are clearly defined.

National Park -

#### **Research / Inventory Plots**

No permanent research plots or trials are known in this compartment. Markings for temporary plots are to be ignored.

#### Leases/OPs

The area is not subject to grazing under Grazing Permit.

#### Infrastructure

 <u>Fences</u>. No fence may be damaged except at places approved by the Supervising Forest Officer. Any damage to a fence by the Contractor must be immediately reported to the Supervising Forest Officer and fixed immediately by the Contractor.

- Gates and roads. The Contractor must keep the gate(s) on the property as found (open or closed). Existing roads must not be blocked or damaged. Any damage must be repaired immediately.
- Apiary Sites. A 20m buffer must be applied around each bee hive encountered.

#### **Transmission Lines/Cables/Pipelines**

An electrical transmission line occurs along the western boundary of the western block of compartment 201.

• Harvesting machinery must not operate within 20m of this transmission line.

#### **Forest Management Zoning Conditions**

FMZ 3A - A 50m buffer area has been declared either side of the drainage line, which coincides with the stream buffer. This is to minimise stream bank de-stabilisation and minimise potential for sediment incursion.

FMZ 4 - 'General Management' occurs within the compartment (shown on HPOM). Normal harvesting prescriptions apply in this area.

#### **Cultural Heritage Conditions**

There are no Aboriginal cultural heritage sites known in this compartment. There is a non-Aboriginal site (cemetery) in the south west corner of the western block which will require a 20m no-harvest zone.

If another site that might be a cultural heritage site is found:

- Its location must be promptly reported to the Forestry Office via Supervising Forest Officer.
- A 20m no-harvest zone must be applied around this site until advised otherwise

#### Flora and Fauna Conditions

The SFO must search for threatened species and mark-up the block as per the <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3.</u>

#### **Mark-up Conditions**

Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</u> for prescriptions.

#### **Tree retention Conditions**

Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</u> for prescriptions.

#### Site-Specific Conditions, Exclusion Zones & Modified Harvest Areas

There are no known areas of heath, rocky outcrops, cliffs and/or endangered ecological community (EEC) occurring within the net operational area that need additional harvest exclusions or modified harvesting zones implemented.

The SFO should watch out for any of these areas that may occur.

These areas are not shown on the Operational Map.

Large habitat trees (LHTs) recorded during traverse survey are shown on the operational map..

Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</u> for prescriptions.

#### **Species Known or Likely to Occur**

There are no known records of Threatened fauna or flora present within the planning area that require prescriptions within this plan.

Contractors and supervisory staff must immediately report any sightings of Schedule 1 and 2 species to the Supervising Forester. The Harvesting Plan must then be amended to include additional prescriptions if necessary.

#### **Fisheries Licence Conditions**

Applicable Fisheries Licence conditions are detailed in the South-Western Cypress – IFOA. Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</u> for prescriptions.

#### **Soil and Water Protection Conditions**

Applicable Environmental Protection Licence conditions are detailed in the South-Western Cypress – IFOA. Refer to <u>Standard Harvest Plan Conditions for Native Forest Operations in Western Region. – South-Western Cypress v.3</u> for prescriptions.

Site-specific EPL conditions – The following features occur within the planned area. Refer to operational map for more detail.

Elements	Conditions
Unmapped Drainage Lines	5m Drainage Feature Protection Zone
5th order mapped drainage line or mapped drainage depression	50m Drainage Feature Protection Zone
Dams	10m

It is the responsibility of the SFO to identify any exclusion areas which will need to be crossed during harvesting. The SFO should then contact the Planning Forester to obtain the necessary approval.

There are no drainage feature crossings proposed to be used during this operation. However, if circumstances require the use of a feature crossing, then after approval its/their location shall be shown on the Operational Map and indicated in the table below.

Drainage Feature	Road / Bush Track / Extraction Track	Soil Dispersibility Assessment Date (IFOA Clause 299)	Regional Manager / EPA Approval Date or N/A

Copies of the Schedule 3 Approvals must be attached and any site-specific prescriptions in those approvals must be applied as conditions of this plan

#### **Road Works Conditions**

Nil required.

#### **Legal Conditions**

This operation may only proceed while this operational plan, the relevant site safety plan and the Standard Harvest Plan Conditions for Native Forest Operations in Western Region. - South-Western Cypress v.3 are held on site.

This operation must comply with the following:

- Standard Harvest Plan Conditions for Native Forest Operations in Western Region - South-Western Cypress v.3
- Tree-marking Protocol for Native Forest Operations in Western Region South-Western Cypress
- Q Licence conditions issued by Forests NSW under the Forestry Act (2012).
- Forest Practices Code, Part 2, Timber Harvesting In Native Forests (4<sup>th</sup> edition 1999).
- **q** Forest Practices Code, Part 4, Forest Roads and Fire Trails (1999).
- q Integrated Forestry Operations Approval issued under Part 4 of the Forestry and National Parks Estate Act 1998 (IFOA) as amended July 2013 including associated licences:
  - Threatened Species Conservation Licence (TSCL) issued under the Threatened Species Conservation Act 1995
  - Fisheries Management Licence issued under Part 7 (Div 3) Fisheries Management Act 1994
  - Environmental Protection Licence (EPL) issued under the Protection of the Environment Operations Act 1997.

#### SFO FEATURE USAGE RECORD – LOG DUMPS

#### Dates of commencement and cessation of logging

Record the commencement and completion of harvesting at each dump

Dump number	Start date	Finish date	Easting*	Northing*	**Temporary track drainage Required?	Comment
Tidiniso.	uuto	dato			aramago requirou i	

<sup>\*</sup> GPS coordinates in MGA 1994 Zone:

<sup>\*\*</sup> If a downhill extraction track enters a log dump from the uphill side, then at the end of each day on which it is used during a logging operation, a drainage structure must be in place on the extraction track within 40 metres of the log dump, on its uphill side.

#### Supervising Forest Officer's Notes

_		
Date (dd/mm/yy)	Authorisation given / hazard identified / instruction made / comments	Licensee/contractor acknowledgment
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	Certificate Of Clearance To Move From Current Compartment(s)
To:	, Supervising Forest Officer.
	quest approval to move my logging crew and all associated machinery from Compartment(s) in State Forest to the next area in accordance with Section 5.5 of the Forest Practices
	de Part 2 Timber Harvesting In Native Forests.
I ce	rtify that:
С	all permanent roads, trails and mitre drains have been cleared of harvesting debris;
С	butt damage to retained trees has been kept to acceptable limits;
С	all trees marked for removal have been felled;
С	utilisation limits have been satisfactorily met;
C	stump heights conform to requirements;
С	all hanging trees have been brought down;
С	all log dump sites have been satisfactorily restored as required;
С	harvesting debris is not accumulated around retained trees;
С	all accumulated litter has been disposed of properly;
С	all modified harvesting conditions have been complied with;
C has	all snig track and road drainage has been installed satisfactorily and other required rehabilitation work sbeen completed;
С	all necessary repairs to damaged roads, signs, fences and other structures have been carried out.
	elieve that I have met all my obligations under the conditions of the Timber Licence that applies to the area just appleted and any N&PW Act Licence that applies to the area just completed, as stated in this Harvest Plan.
Sigr	nature: Licence No:
	Date:
	Licensee/Contractor
that sati	a result of inspections of the logging operations carried out in accordance with this Harvest Plan, I am satisfied , to the best of my knowledge, the harvesting licensee/contractor responsible for this harvesting operation has sfactorily completed all work. Approval is given for her/him to remove her/his machinery and equipment and we the area/commence operations in another harvesting plan area, being:
	Compartment(s):, in State Forest.
defi	s clearance does not release the licensee/contractor from any obligation to undertake any remedial work if ciencies, found during any inspections of the area made within 12 months of the date of this post-harvesting pection, are shown to have resulted from inadequate practices during the harvesting operation.
Dat	e of last inspection of the area by the Supervising Forest Officer:
Sup	pervising Forest Officer date:
	Signature Name

# HARVEST PLAN AMENDMENT RECORD

Amendment No. & type			Date Prepared	Amendment Details	All Copies Amended	Signature
Number	Major	Minor				
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Note: The purpose of this log is to track amendments to the Harvest Plan from time of first approval. All maps, Harvest Plans etc. are to be clearly identified with a version # and date so that changes to the Plan may be clearly identifiable. The Harvest Planner is responsible for ensuring all amendments are implemented, recorded and filed

#### Supervising Forest Officer's Hand-Over Acknowledgment

I confirm that I have received a copy of the Harvest Plan for the above Compartment. I have been briefed on the conditions of the Plan and the progress of the operation. I understand the requirements for supervision and operational control, as explained to me by the current SUPERVISING FOREST OFFICER.

Signature:		Date:	
	Incoming Supervising Forest Officer		
Signature:		Date:	
Position:	Incoming Supervising Forest Officer		
0.		5.	
	Incoming Supervising Forest Officer	Date:	
	Incoming Supervising Forest Officer	Date:	
Signature:		Date:	
Position:	Incoming Supervising Forest Officer		
Signatura:		Date:	
_	Incoming Supervising Forest Officer	Date	

## RECORD OF INCIDENTAL THREATENED PLANT OR THREATENED FAUNA FEATURE SIGHTING

- For each occurrence/population sighted/identified, a separate form 5 must be filled out and
  provided to the Region Ecologist as soon as practicable. The details must also be recorded on
  this form in the Supervising Forest Officer's copy of the operational plan, with the date the
  separate form 5 went to the Ecologist.
- Some features or species require no further prescription but should still be recorded while other features or species require an immediate prescription and/or further survey before logging may continue in the vicinity.
- Locations of species/features recorded on this form should be noted on the operational map.
   IR form = incidental record form 5. ECO = Regional Ecologist

Species or features detected	Map datu	m GDA94	Action taken	Date IR
Species or features detected (include type, number, etc.)	Location (MC	A reference)		form
(orado typo/ Harribor / oto.)	Eacting	m GDA94 GA reference) Northing (7-digit)		given to
	Easing	Northing		ECO
	(6-digit)	(/-digit)		200

#### Supervising Forest Officer's Post-Harvesting Notes

Record significant circumstances about harvesting this area. Draw or attach an annotated operational scale map.

#### **ACTUAL AREA HARVESTED** (by silvicultural treatment)

Treatment	code on	Area (ha)	REGEN	V QUAL	ITY	REGEN DENSITY			
	map	treated	Good	Fair	Poor	Dense	Fair	sparse	COMMENTS
THINNED	T1								
	T2								
RELEASED	R1								
	R2								
SALVAGE	S1								
	S2								
Not	NH1								
Harvested	NN2								
	NH3								

POSSIBLE NEXT HARVEST C = cypress H = hardwood High quality large sawlog High quality sawlog Low quality sawlog Fencing/posts Vineyard posts (cypress) Residue C 0 to 5 years to next harvest C 10 to 20 years to next harvest C 20 to 30 years to next harvest C 30 plus years to next harvest A C 30 plus years to next harvest C 30 plus years to next harvest A Noxious or environmental weed problems; high levels of feral animal use.  2. Sites of soil erosion for attention.		N	Н3								***************************************		
Code on map  Comment  Code on map  Code on m	POSSI	IBI F NE	XT H	ARVEST			N	Main pr	oduct t	vne	An	ticipated vo	lume
High quality small sawlog Low quality sawlog Fencing/posts Vineyard posts (cypress) Residue  Code on map Comment Habitat trees / Non-merchantable C 0 to 5 years to next harvest C 5 to 10 years to next harvest C 10 to 20 years to next harvest C 20 to 30 years to next harvest C 30 plus years to next harvest													
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Low quality sawlog Fencing/posts Vineyard posts (cypress) Residue  Code on map Comment Habitat trees / Non-merchantable  c 0 to 5 years to next harvest c 5 to 10 years to next harvest c 10 to 20 years to next harvest c 30 plus years to next harvest c 30 plus years to next harvest l Noxious or environmental weed problems; high levels of feral animal use.  2. Sites of soil erosion for attention.  Boundary compromised; neighbour issues resulting from logging or haulage.  4. Operation map errors for attention (e.g. forest type; roads) of appropriate staff (e.g. GIS, Planner)									K	.ж			
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4. Operation map errors for attention (e.g. forest type; roads) of appropriate staff (e.g. GIS, Planner)	2. Site	s of soil (	erosion	for attention									
	 3. Bou	 Indary co	mprom	ised; neighb	our issue	es resulti	ng from lo	ogging o	haulage	<u></u>			
5. Any other comments – SUPERVISING FOREST OFFICER / FA / Forester	4. Op∈	eration m	ap erro	rs for attentio	on (e.g. f	orest typ	e; roads)	of appro	priate st	aff (e.g. Gl	S, Planner	)	
	5. Any	other co	mment	s – SUPERV	ISING F	OREST	OFFICEF	R/FA/F	orester				

#### RECORD OF BASAL AREA SWEEPS OF ALL RETAINED STEMS - 10cm dbhob or larger

Date	Before or	Category		Component					
(and GPS grid ref optional)	after harvest		All trees	White cypress	Ironbark	Other species			
	c Before	merchantable							
	OR	pre-merch							
	c After	non-merch			<u></u>				
		total							
trees marked for (circle	correct one): ret	ention / removal							
	c Before	merchantable							
	OR	pre-merch							
	c After	non-merch							
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trees marked for (circle	correct one): ret	ention / removal							
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trees marked for (circle	correct one): ret	ention / removal							
	c Before	merchantable							
	OR	pre-merch				•••••••••••••••••••••••••••••••			
	c After	non-merch							
		total							
trees marked for (circle	correct one): ret	ention / removal							

BA is measured at 1.3m above the ground, and does not include stems less than 10cm diameter at that point.