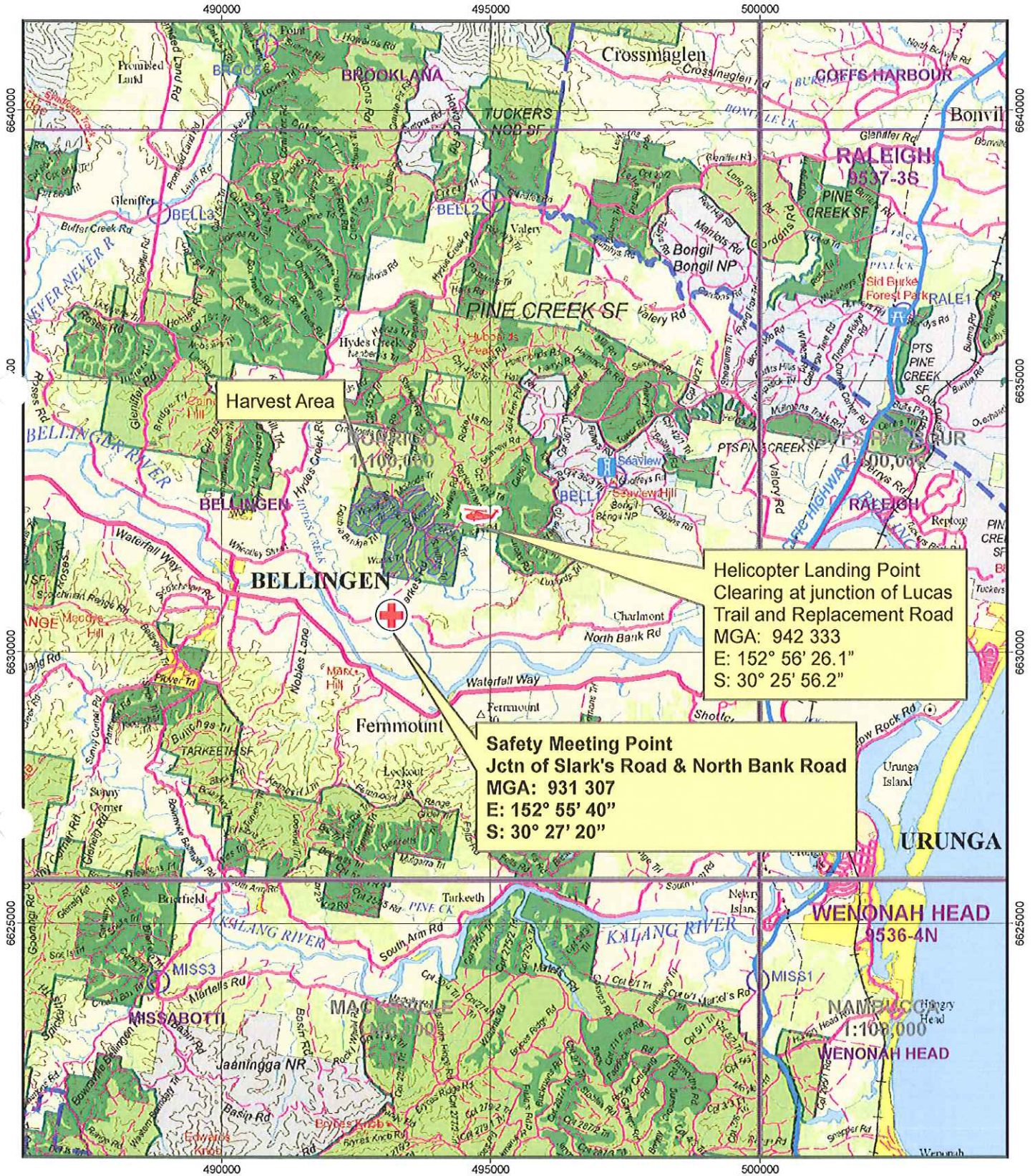




Map Sheets:
 1:25000 - Bellingen 9437 - 2S
 1:100000 Dorrigo 9437
 Scale: 1:100,000

North East Region - Urunga MA
 Locality Map
 Compartments 38 & 39
 Pine Creek State Forest

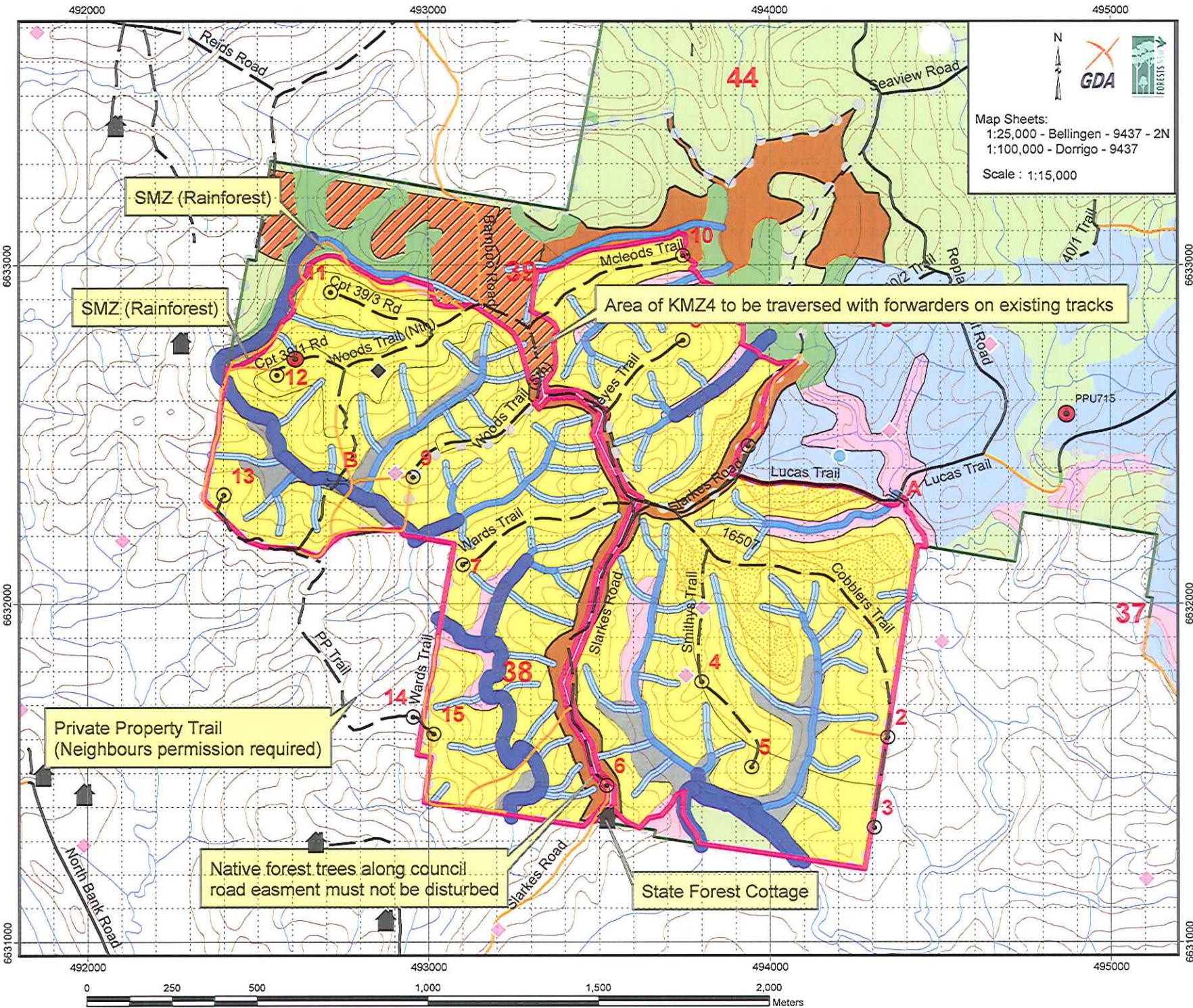


MAP FEATURES

- Operational Harvest Area
- Emergency Meeting Point (Safety Point)
- Helicopter Landing Point
- State Forest
- 1:25000 Map Sheet
- 1:100000 Map Sheet
- National Park Estate



Prepared by... Bob Aspden
 Date: 23/6/07



Map Sheets:
 1:25,000 - Belling - 9437 - 2N
 1:100,000 - Dorrigo - 9437
 Scale : 1:15,000

North East Region - Urunga MA
 Harvest Plan Operational Map
Compartments 38 & 39
Pine Creek State Forest

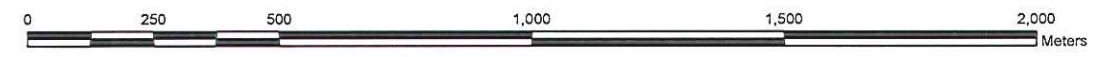
- MAP FEATURES**
- State Forest Boundary
 - Compartments Boundary
 - 1 Km Grid
 - 10 / 100 m Contour
 - State Forest
 - National Park Estate
 - PGPs (Permanent Growth Plots)
 - Dump and/or Turnaround
 - Crossing
 - Drainage (LIC)
 - House
- ROADS**
- All Weather, Unsealed
 - Dry Weather, Unsealed
 - 4WD Track
 - Non Haulage Roads
- HARVESTING PRESCRIPTIONS**
- Harvestable area
 - Harvest Area (Indicative Wet Weather Area)
 - Area for further assessment
 - Koala Management Zone 6
 - Plantation Authorisation Boundary
- RIPARIAN BUFFER ZONES**
- 10m either side (1st Order)
 - 10M either side (2nd Order)
 - 20m either side (3rd Order)
- HARVESTING EXCLUSIONS**
- Special Management Zone (FMZ 2 & 3A)
 - Mapped Rainforest
 - Other plantation area
 - Koala Management Zones 4 & 5
- THREATENED SPECIES LOCATIONS**
- Sooty Owl
 - Brush-tailed Phascogale
 - Koala

Area of KMZ4 to be traversed with forwarders on existing tracks

Private Property Trail (Neighbours permission required)

Native forest trees along council road easment must not be disturbed

State Forest Cottage



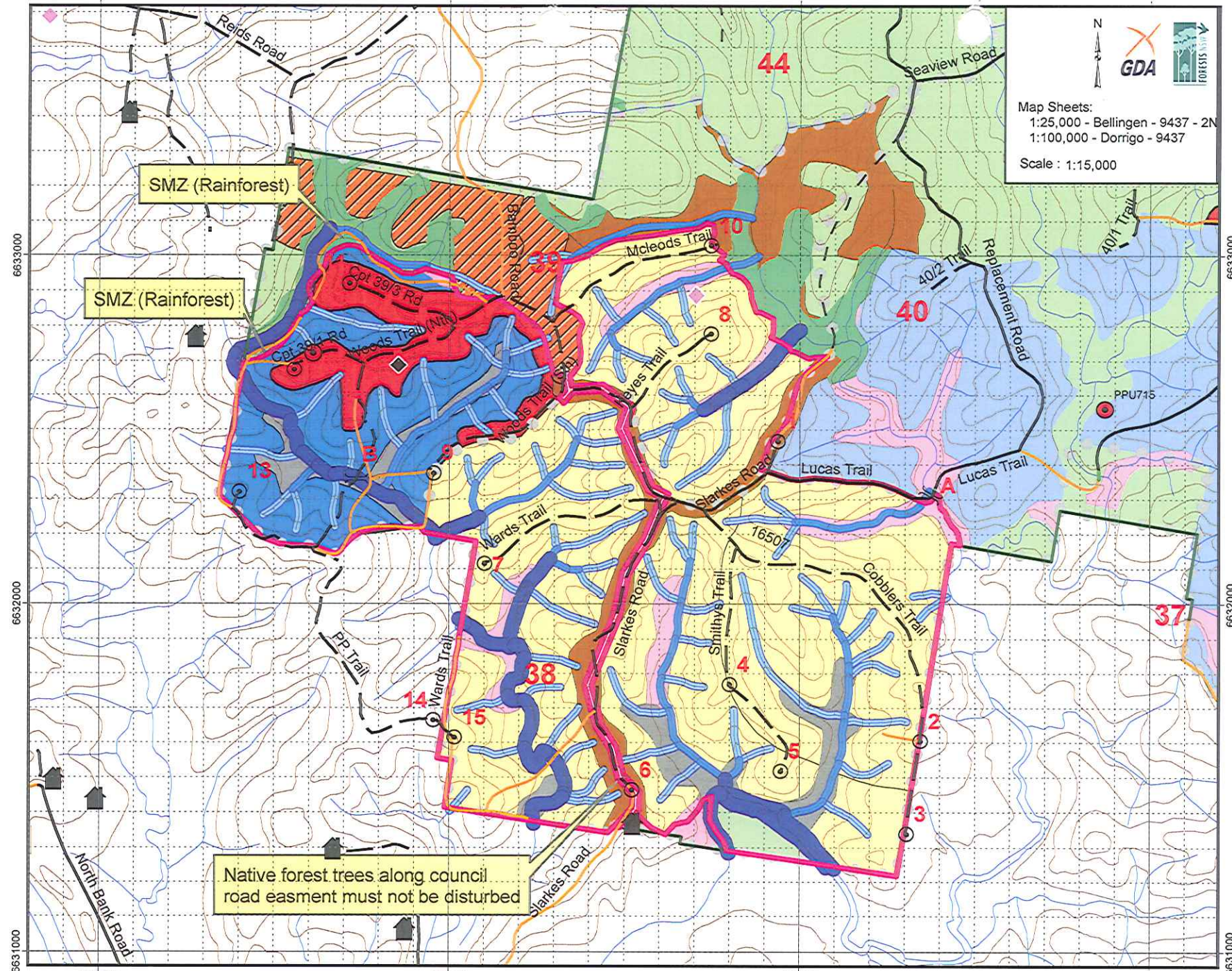
Prepared by... Bob Aspden
 Date: 28/4/2010

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Map Sheets:
 1:25,000 - Bellingen - 9437 - 2N
 1:100,000 - Dorrigo - 9437

Scale : 1:15,000

North East Region - Urunga MA
 Forest Type Map
 Compartments 38 & 39
 Pine Creek State Forest

MAP FEATURES

- State Forest Boundary
- Compartments Boundary
- 1 Km Grid
- 10 / 100 m Contour
- State Forest
- National Park Estate
- PGP's (Permanent Growth Plots)
- ⊙ Dump and/or Turnaround
- Crossing
- Drainage (LIC)
- House

ROADS

- All Weather, Unsealed
- Dry Weather, Unsealed
- - 4WD Track
- Non Haulage Roads

FOREST TYPES

- Blue Gum (1967 AC)
- Flooded Gum (1971-72 AC)
- Blackbutt (1967 AC)
- Area for further assessment
- Koala Management Zone 6
- Plantation Authorisation Boundary

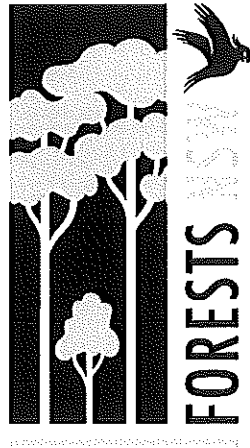
RIPARIAN BUFFER ZONES

- 10m either side (1st Order)
- 10M either side (2nd Order)
- 20m either side (3rd Order)

HARVESTING EXCLUSIONS

- Special Management Zone (FMZ 2 & 3A)
- Mapped Rainforest
- Other plantation area
- Koala Management Zones 4 & 5


Prepared by... Bob Aspden
 Date: 28/4/2010



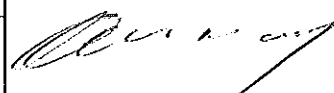
OPERATIONAL HARVESTING PLAN PLANTATION CLEARFELL


Region	North East
Management Area	Urunga
State Forest	Pine Creek
Compartments	38 & 39
Harvest plan No.	HP_3607
Harvest Plan Name	U_38_39

Plan Certification

Harvest planner		Date: 28/6/2010
Bob Aspden		

Harvest planning Manager		Date: 28/6/2010
Steve Pickering		

Regional Planning Manager		Date:
John Murray		

Regional Manager		Date: 8/7/2010
Dale McLean Craig Busby		

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HARVESTING DETAILS

1. Area Identification

Region	North East
Management Area	Urunga
State Forest	Pine Creek
Compartment/s	38 & 39

Cmpt	Gross Area (ha)	Net Area (ha)	Pricing Area	Op Type	Avg. Yield (contract)	Avg. Removal (contract)
38	150	117	Urunga Costal	Clearfall	120	0.3
39	153	77	Urunga Costal	Clearfall	120	0.3

2. Description of Proposal

2.1 Integrated harvesting of Plantation Areas

Clearfelling of poor quality non-vigorous Flooded Gum (*E. grandis*) plantation and some smaller sections of Blue Gum (*E. saligna*) and Blackbutt (*E. pilularis*) plantation.

2.2 Other

	Proposed	Details
Roadworks	Yes	Roadworks Plan (attached)
Post harvest Burning	Yes	Plan to be prepared separately
Re-establishment (2R)	Yes	Plan to be prepared separately

3. Safety Considerations

See attached Hazard Assessment and Medical Emergency Evacuation Plan.

4. Plantation Condition and Silvicultural Prescription

4.1 Plantation Description

- **Age Class:** 1967, 1971 & 1972
- **Species/Area:** Flooded Gum ~ 150 ha
Blackbutt ~ 5 ha
Blue Gum ~ 35 ha
- **Stand Health:** Flooded Gum – Varying quality from poor to very poor (most stems are expected to exhibit internal defect in the form of pithy heart)
Blue Gum - Medium Quality
Blackbutt – Medium Quality

4.2 Silvicultural History and Product Types

Most stands were thinned in 1990 and 1996. A high proportion of pulp and salvage grade logs can be expected. Some poles will be produced from the Blackbutt stands.

4.3 Silvicultural Objectives and Prescriptions

- It is proposed to clearfall all the available harvest area.
- Re-establish with local native species within 12-18 months

5. Legal Conditions

The area to be harvested is an authorised plantation under the Plantations and Reafforestation Act (1999) (Authorisation no. GR0723).

As such, the operation must comply with:

- Plantations and Reafforestation Act (1999)
- Plantations and Reafforestation (Code) Regulation (2001), subject to the conditions described in Attachment 1 of the Authorisation for the timber plantation.

Legislation relating to the operations on State forests & Other Crown-Timber Lands is detailed in FNSW Forest Practices Codes. In addition this operation must specifically comply with:

- Forests NSW Forest Practices Code part 1 (Timber Harvesting in Forest NSW Plantations 2006)
- Forests NSW Forest Practices Code part 4, Forest Roads and Fire Trails (February 1999)
- Licence Conditions issued by Forests NSW under the Forestry Act (1916)

6. Special Conditions

6.1 Non-harvest areas

The Operational Map indicates the non-harvest areas in the compartment, as detailed in the legend.

- Harvesting disturbance is not permitted in non-harvest areas without contacting the Harvest Planner to obtain the required Regional approval.
- Harvesting may take place within buffer zones of 1st and 2nd order drainage lines (as indicated on the operational map) and un-mapped drainage lines in accordance with the conditions outlined in section 10.2.
- No harvesting or other disturbance may take place within the 20m buffer on 3rd order (or greater) drainage lines, wetlands or rivers. No machinery may enter the buffer (except where crossing a drainage line with prior SFO authorisation) and no trees are to be removed.

6.2 Leases, Permits, Plots

- A PGP occurs on Cpt 39/1 Road (PPU716). The SFO is to confirm the PGP has been measured prior to harvesting.

6.3 Noise

There are a number of residences within close proximity to the western boundary of the harvest area that may be affected by noise. One residence (a SF Cottage) along Slarkes Road is within the boundary of Cpt 38 and is likely to be affected by noise. Mitigative measures to lessen the impact on these residences will apply. These measures are to be determined on a site specific basis by the SFO and should be discussed with the harvesting forester. Measures may include;

- Liaising with neighbours regarding noise issues.
- Changes to the activity that would reduce the noise impact or disturbance.
- Restricting hours of operation (e.g. 6am to Sunset)

6.4 Boundaries

- For boundary locations refer to the operational map.
- Where there is uncertainty as to the location of any critical boundary the harvesting Forester must be consulted prior to harvesting in the area.

Private Property

Private Property surrounds the harvest area to the west, south and east.

- The harvesting must not impact on private property.
- Any damage to a fence must be immediately repaired by the contractor
- If accessing private property through PP Trail care must be taken to not allow cattle to escape from the private property paddock.

Permission must be granted to FNSW prior to accessing the harvest area through private property along PP Trail off Woods Trail (North) on the western boundary of Compartment 39.

Council Roads

The harvest area adjoins the Slarks Road and Bamboo Road (see Operational Map). Adjacent to these roads occurs native forest. This native forest must not be disturbed. These areas must be identified, marked and excluded from harvesting disturbance. These easements are indicated by the plantation authorisation boundary (see Operational map).

Koala Management Zone (KMZ) 4 & 5

- Koala Management Zones 4 & 5 (as indicated on the operational map) are excluded from harvesting activities.
- Koala Management Zone 6 – see section 7.2

6.5 Wet Weather Operational Area

Areas on the operational map have been identified as indicative wet weather harvesting areas (marked as yellow with brown dots).

6.6 Public Recreational Use

Areas adjacent to the harvesting area and within the vicinity of the harvest area are frequently used by the public for recreation. Slarks Road and Bamboo Road are council roads and are occasionally used by neighbouring property owners for access. The Bellingen Shire Council has allowed the closure of these roads to the public for the duration of the harvesting operation. The road closures will be advertised in local newspapers. Road signage must be used close these roads. Valery Trails Equestrian Centre sometimes ride through the area. All operators must remain vigilant to the potential presence of members of the public within the operational area.

6.7 Rainforest

Rainforest has been mapped within the compartments. The line work generated may be inconsistent with actual field vegetation types. These mapped areas should be inspected in the field and assessed against RN17 forest types. Verified rainforest (RN17 forest types 1-23) is to be marked for exclusion. Other areas of unmapped rainforest are also to be marked for exclusion as described in the Forests NSW Forest Practices Circular 2005/02. Areas within the authorised plantation determined through field inspection not to constitute rainforest are available for harvest in accordance with all other conditions of this plan. The SFO must photograph these areas prior to harvest.

Field inspections of some of the mapped rainforest areas have concluded that they contain a flooded gum overstorey with an understorey dominated by weed species including camphor laurel, privet and lantana. Some areas contain a mesic understorey; however, there is no advanced rainforest structure. Photographic evidence of the plantation establishment in 1972 (located at the North East Regional Office), clearly shows the rainforest has been incorrectly mapped.

6.8 Haulage Considerations

Haulage will access the Pacific Highway via Lucas Trail, Replacement Road, Slarkes Road, Seaview Road, Tower Road, Valery Road and Mailmans Track. The haulage will be closed to the public. This haulage route can only be used after obtaining a permit and receiving an induction from FNSW. **Note: members of the public, FNSW and NPWS staff may obtain permits to use this haulage route.**

- B-double configuration trucks are required to travel at speeds not exceeding 30km/hr through the sections of Bongil Bongil National Park on the haulage route (this includes sections of Seaview, Tower and Mailmans Track Roads).
- B-double configuration trucks are required to travel at 40km/h on Valery Road. All trucks using Valery Road and other public roads must proceed with due caution and be courteous to other road users.

6.9 Areas for Further Assessment

The sections of forest described as Area for Further Assessment (shaded grey on the operational map) appears to be predominantly plantation. This area is available for harvest pending further assessment of rainforest values (see above).

6.10 Unique and Special Wildlife Values

The description and diagram of the species listed below (see attached appendix) are to be used by the SFO and operators to identify any individuals within the operational area. If individuals are identified during operational activities – the harvesting forester must be notified immediately. The operations must be halted until the Regional Ecologist has determined the extent of the population and determined conditions under which operations can continue without impacting on known populations.

Slender Marsdenia (*Marsdenia longiloba*) most likely habitat is lowland wet sclerophyll forest with a rainforest understorey. Two observations of this species have been made within a 5km radius of the harvest area but has not been detected in this compartment.

6.11 Area available for re-planting

A small section of authorised plantation on the southern boundary of compartment 38 (shaded green) is available for 2R planting if deemed suitable.

7. Forest Management Zoning And Approvals

7.1 Forest Management Zones

The compartments include the following FMZs as indicated on the operational map:

- **Zone 5 (Native Species Plantation)** Shown as yellow on the operational map, these areas are available for harvesting in this operation – follow silvicultural prescriptions as outlined in section 4.

Note: Areas shown as grey on the operation map are zoned as FMZ 5 – these are likely to be failed plantation – SFO to mark harvestable area in field.

- **Zone 4 (General Management – Other State Forest)** is native forest and is not available for harvest.
- **Zone 2 and 3A (Special Management Zone - Rainforest)** Shown as deep green on the operational map, these areas occur outside of authorised plantation and are excluded from all harvesting activity.

7.2 Koala Management Zones

- **Koala Management Zone 4 & 5 (Interim Koala Reserve)** – Occurs along the northern boundary of compartment 39 and is shown as orange hatching on the Operational Map. **No harvesting or other forestry activities are permitted in this area.**
- **Koala Management Zone 6 (Type Not Zoned)** – This area is available for harvest if determined to be plantation and determined not to be rainforest as per the Forests NSW Forest Practices Circular 2005/02. Only plantation species may be harvested - all Tallowood, Grey Gum and non-plantation Blue Gum species are to be retained. These areas will be considered for rehabilitation as per the Koala Management Plan (2000).
- All of the areas to be harvested (indicated as yellow on the Operational Map) are contained within Koala Management Zone 1– Plantation Wood Production Emphasis Zone. Within this zone: ***Individual Koalas shall be protected from tree felling operations wherever detected. A tree will not be felled or damaged while a koala is known to be in the tree. (PCKMP 6.2.1.1 (b))***
- Forests NSW will apply the principles laid out in the Pine Creek Koala Management Plan.
- Forwarder access is permitted through KMZ 4/5 along either side of Bamboo Road using existing forwarder tracks only. **No other harvesting or other forestry activities are permitted in this area.**

8. Cultural Heritage

8.1 Aboriginal Cultural Heritage

There are no known Aboriginal sites or other heritage items in the compartments. The Local Aboriginal Land Council has been consulted in regard to the proposed harvesting and the Regional Aboriginal Cultural Heritage Officer has inspected the compartments. No issues were identified at the inspection.

8.2 Non Aboriginal Cultural Heritage

No sites of non aboriginal cultural heritage were identified in this compartment.

9. Soils and Water

	Cpt 38	Cpt 39
Inherent hazard level	1	1
Dispersible Soils	No	No
Mass Movement Hazard	No	No
Seasonality	No	No

10. Drainage features

10.1 Drainage feature protection

- The Operational Map indicates known mapped drainage features and widths of protective measures.
- (note: some of the drainage features indicated on the Operational Map with filter strips may, at the time of marking, be determined as depressions).
- The minimum buffer zone width for each side of drainage features is shown below.

Stream Order	Buffer Zones each side of drainage feature (Haz Class 1)
Drainage depressions	5
Unmapped drainage lines	10
1st order	10
2nd order	10
3 rd order	20
4 th order or greater	20

10.2 Operational Conditions For Drainage Features

- Harvesting within buffer zones must comply with conditions 16, 62-63 of the Plantations and Reafforestation (Code) Regulation 2001 (see attached).
- No harvesting is permitted within the buffer zone of a wetland or river (3rd order or greater drainage line)
- Harvesting within the buffer zone of a 1st and 2nd order drainage line can only occur when:
 - The person carrying out the harvesting operation is satisfied that the top 200mm of soil is dry enough to allow operations without risk of soil erosion to the edge of the drainage feature.
- **No harvesting machinery is permitted to enter the 5m zone (area immediately surrounding either side of all drainage lines) for the purposes of harvesting. Harvesting operations must use “reach in” techniques to harvest this area.**

11. Tree Marking Conditions and Code

- All exclusion zone and buffer zone boundaries must be marked in the field - except where specified forestry activities will not come within 50 metres of such boundaries. Where thick or impenetrable understorey obstructs marking UHF radio communication with operators may be used to indicate filter strips and boundaries. The SFO must document and justify such situations as it becomes apparent during compartment mark-up

STANDARD MARKINGS/SYMBOLS: Markings/Symbols that deliver key requirements on a state wide basis

Description	Symbol
Compartment boundary (Where not defined by clear features eg. Road, trail, creek)	“O” or Yellow tape
Exclusion zone (Line not to be crossed or disturbed by fallers or harvesting machinery at any time)	Three horizontal lines / rings 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 boundary and tree retention rules (eg 5m debris)	“⊙”
Buffer Zone Areas where machinery is not permitted but there may be trees to be felled	Two horizontal lines / rings (indicate distance if required)
Drainage depression buffer strip	Not marked
Extraction System, OR Road/Track line	“I” or white tape
Dump site (with optional dump number reference)	“D” or red tape
Approved crossing site	“↑”
Slope angle indication (commences here)	eg “25°”
Individual tree	“•” or dots
Directional felling mark	“←” over “•”
Retained trees not to be removed or damaged (eg grower)	One horizontal line or ring
Cancellation Mark (Mark to formally cancel previous marks)	“X”

12. Roads and Crossings

- There are a number of non-haulage roads as indicated on the operational map that are not to be used by haulage traffic. They may be used with SFO approval for snigging or extraction provided they are drained to the appropriate specifications. They may be used for vehicular access where they have been assessed by the SFO prior to use, and are in a stable condition unlikely to cause environmental harm. (See Regional Policy No. 6 – Use of Non-Haulage Roads in Harvest Areas).
- Harvesting machinery may cross drainage lines at authorised crossings as per conditions 37-41 the Plantations and Reafforestation (Code) Regulation 2001. The SFO must give authorisation prior to crossing drainage lines.
- Machinery may cross drainage depressions and drainage lines if the crossing point is shallow and dry, surrounding soil is dry, drains or other measures are used to prevent water from approaches entering the drainage line in the event of wet weather, and no earthworks are required to enable the machinery to cross the drainage line.

- Crossings must be drained using drainage structures within 5-30m either side of the crossing
- Machinery may cross drainage lines and depressions that occur on extraction tracks by using slash crossings. Slash crossings are **Temporary Crossings** and must be removed within 5 days, and the approaches must be closed and cross-drained.
- Wetlands must not be crossed under any circumstances.

Road Maintenance/Road Construction and Road re-opening – See Roadworks Plan

13. Log Dumps

13.1 Location

- Log dumps and landings that require construction must be located outside buffer zones, areas of native vegetation and zones marked as 'No Loading Permitted' zones on the Harvest Plan Operational Map.
- Log stockpile areas within native forest areas must be approved by the Regional Manager prior to establishment and should be located so as to minimise disturbance to understorey elements.
- Log stockpile sites (no construction required) are permitted along all sections of road within the plantation area unless marked as 'No Loading Permitted' zones on the Harvest Plan Operational Map.

13.2 Treatment

- Conditions 60-61 of the P & R Code, and 17.2 – 17.4 of the Forest Practices Code (FPC) 2005 must apply.
- Debris accumulated during processing at log dumps and landings must be located outside the boundary of buffer zones. Even distribution of slash and debris across running tracks is required. This will alleviate ground compaction and reduce exposure of soil to erosion and run-off.
- If any area used as a log dump or landing for harvesting operations ceases to be so used for more than one week, measures to minimise soil erosion must be put in place.

14. Extraction Tracks

14.1 Conditions 37 to 45 of the P & R Code (Plantation & Reafforestation Code, and 9.1 - 9.4 and 14.1 - 14.4 of the FPC (Forest Practices Code 2005).

14.2 Walkover extraction:

- Special attention must be paid to the placement of slash over ground area of any concentrated machinery movement. Such areas will include the exits of extraction tracks onto roads, at the intersection of running tracks in the harvest area and at log landings.

14.3 Extraction track drainage:

Soil erosion from tracks should be minimised by:

- Retaining groundcover and using slash and leaf litter. Slash should be placed evenly across the track to divert water.
- Using natural cross-fall drainage.
- Drainage structures must be constructed if concentrated water flow occurs for distances exceeding those in the following table.

Maximum distance of water flow or potential water flow along snig tracks or extraction tracks (metres measured along the ground surface).

Track grade (degrees)	Maximum distance (metres)
0-5	100
5-10	60
10-15	40
15-20	30
20-25	20
25-30	15

15. Product Specifications and Accounting

All timber products must be graded and required accounting procedures initiated prior to the products being removed from the dump.

16. Yield Estimates

Compartment	Op Type	Net (ha):	Area
38	CF		117
Products	Volume/ha (m ³ /ha)	Total Volume (m ³)	
Poles	0	0	
Veneer	2	234	
HQL	30	3510	
HQS	4	468	
E-logs	4	468	
Salvage grade 1	60	7020	
Salvage grade 2	30	3510	
Pulpwood	40	4680	
TOTAL	170	19890	

Compartment	Op Type	Net (ha):	Area
39	CF		77
Products	Volume/ha (m ³ /ha)	Total Volume (m ³)	
Poles (BBT only)	5	385	
Veneer	5	385	
HQL	30	2310	
HQS	20	1540	
E-logs	10	770	
Salvage grade 1	40	3080	
Salvage grade 2	20	1540	
Pulpwood	40	3080	
TOTAL	170	13090	

Total Volume = 32,980 m³

17. Pre operation briefing

- I acknowledge that I have received a copy of the Harvesting Plan for Compartments 38 & 39 in Pine Creek 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.

Signature:		Name:	
Position	Supervising Forest Officer	Date:	

Signature:		Name:	
Position:	Relieving Supervising Forest Officer	Date:	

Harvesting Contractor Acknowledgment

- I acknowledge that I have received a copy of the Harvesting Plan for Compartments 38 & 39 in Pine Creek State Forests and that I understand the conditions of the Plan as explained to me by a Forests NSW officer. I will brief other operators not present at this briefing prior to them starting operations and ensure that risk assessment for the Safety Management Plan is completed for this area prior to operations commencing

Signature:		Name:	
Position:	Principal Contractor / Other (explain)	Date:	

Personnel attending Induction

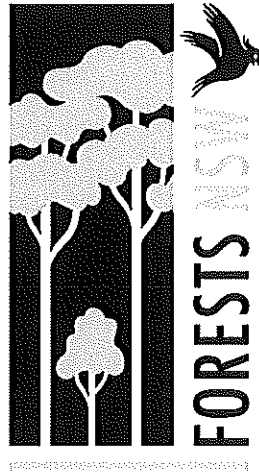
Contractor Personnel	Date	FNSW Personnel	Date

This pre operation briefing must be separated from the harvesting plan once the briefing is complete the signed copy of this must be filed with the official copy of the plan.

ROAD WORKS

Plantation CF – Cpts 38 & 39

Pine Creek State Forest
North East Region



Prepared by: Planner

[Handwritten Signature]

Signature

Date:

28/6/10

Endorsed by: Works Program Supervisor

[Handwritten Signature]

Signature

Date:

21-10-2010

Approved by: Regional Manager

[Handwritten Signature]

Signature

Date:

8/7/2010

GENERAL INFORMATION FOR MAINTENANCE CREW

Compartments 38 & 39 Pine Creek State Forest

1 Need for the proposal

This proposal is required to service plantation harvesting operations within the above compartments. These compartments are scheduled for harvest in mid 2010 onwards.

2 Costs, Benefits and Material & Plant Requirements

A full breakdown of the costs, benefits and material & plant requirements is given in the Financial Analysis spreadsheet, on file in the North East Region office.

3 Specifications/Legal Conditions

- All roadworks must comply with:
- Schedule 5 of the EPL unless otherwise specified.
- FNSW Forest Practices Codes part 4, Forest Roads and Fire Trails (February 1999).
- Technical Guidance Notes for Roadworks.
- Plantations and Reafforestation Act (1999)
- Plantations and Reafforestation (Code) Regulation (2001), subject to the conditions described in Attachment 1 of the Authorisation for the timber plantation.

4 Special Conditions

Feature	Conditions
Cultural Heritage	No
Threatened Species Licence	No
Dispersible Soils Hazard -	No
Mass Movement Hazard -	No
Seasonality	No
Engineering Design	No
Environmental impacts ie Dust, Noise, Water, Visual	No
National Park	No
Private Property	Yes – PP Trail runs through private property on the western boundary of the operational area. At this stage FNSW does not have permission to use and maintain this road for haulage access. No works are to be conducted on Crossing B or PP trail until permission has been granted.
Permit To Enter required	Yes – All roads within the operational area and along the haulage route will be closed to the public for B-double haulage. A permit is required for access within this road network.
Quarries and Gravel Pits	No
Underground/Overhead Utilities	No
Safety Issues (includes hazards, public use of roads)	None Identified

5 General Conditions

Remove trees in accordance with FNSW Safety Standard 1.3.9; and

Remove vegetation within 3m of the road prism **only where required** to maintain safe sight distance and passage of trucks.

Note: Clearing is generally permitted within 3m of the road prism for all roads. Ground disturbance and tree debris may impact outside this 3m either side of the road prism as is required to effect clearing within 3m of the road prism. Conditions 5, 6 and 47 Schedule 5 of the EPL must apply

Road works Plan – U_38_39

GENERAL INFORMATION FOR MAINTENANCE CREW

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4 Special Conditions

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Threatened Species Licence	No
Dispersible Soils Hazard -	No
Mass Movement Hazard -	No
Seasonality	No
Engineering Design	No
Environmental impacts ie Dust, Noise, Water, Visual	No
National Park	No
Private Property	Yes – PP Trail runs through private property on the western boundary of the operational area. FNSW has permission to use and maintain this road for haulage access. Permit to enter on file.
Permit To Enter required	Yes – All roads within the operational area and along the haulage route will be closed to the public for B-double haulage. A permit is required for access within this road network.
Quarries and Gravel Pits	No
Underground/Overhead Utilities	No
Safety Issues (includes hazards, public use of roads)	None identified

5 General Conditions

Remove trees in accordance with FNSW Safety Standard 1.3.9; and

Remove vegetation within 3m of the road prism **only where required** to maintain safe sight distance and passage of trucks.

Note: Clearing is generally permitted within 3m of the road prism for all roads. Ground disturbance and tree debris may impact outside this 3m either side of the road prism as is required to effect clearing within 3m of the road prism. Conditions 5, 6 and 47 Schedule 5 of the EPL must apply

Road Maintenance/Upgrade

Road Name Bamboo Road

Category Temporary

Location Off Slarkes Road

Length (m) 890

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 890	
		Repair surface	<input checked="" type="checkbox"/>	boggy and rutted sections	
		Crown/Crossfall	<input checked="" type="checkbox"/>		
	Gravel	<input checked="" type="checkbox"/>	Required to fill in 4 x bogs - spoon drains	Gravel Length (m) 100	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input checked="" type="checkbox"/>	Sets: 4		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM AND BUILD 4x SPOON DRAINS @ BOGS					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Cobblers Trail

Category Temporary

Location Off Slarkes Road

Length (m) 1050

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>		
	Mass Movement	<input type="checkbox"/>		
	Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input checked="" type="checkbox"/> Location At Intersection of Slarkes Rd Formation Width (m) 4.2M Curve Widening Yes Upgrade Length (m) 30 Upgrade Spoil Incorporate into road prism	
		Grade Lowering	<input type="checkbox"/> NA	
		Realignment	<input type="checkbox"/> NA	
		Reopening	<input checked="" type="checkbox"/> Intersection onto Slarkes Rd, replace ROD with RF	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 1020
		Repair surface	<input checked="" type="checkbox"/>	Rutted sections
		Crown/Crossfall	<input checked="" type="checkbox"/>	
	Gravel	<input checked="" type="checkbox"/>	NA Gravel Length (m) 40	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5	
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5	
	Batter Repair/Upgrade	<input type="checkbox"/>	NA	
Drainage	Culverts	<input type="checkbox"/>	NA Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>		
	ROD/Spoon	<input type="checkbox"/>	Sets: 3	
	Belts/Channels	<input checked="" type="checkbox"/>	Sets: 3	
	Drop Downs	<input type="checkbox"/>	Sets:	
	Silt Trapping	<input type="checkbox"/>		
<p>Comments: WIDEN CORNER AT INTERSECTION WITH SLARKES ROAD - REMOVE VEGE TO THE WEST. CUT AND FILL TO IMPROVE CAMBAR. REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM & REPLACE RODS WITH RUBBER FLAPS</p>				

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Cpt 39/1 Trail

Category Temporary

Location Off Woods Trail (North)

Length (m) 220

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info		Works >30 Slopes	<input type="checkbox"/>		
		Mass Movement	<input type="checkbox"/>		
		Dispersible	<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 220
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Cpt 39/3 Trail

Category Temporary

Location Off Woods Trail (North)

Length (m) 330

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 330	
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
	Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Keyes Trail

Category Temporary

Location Off Bamboo Trail

Length (m) 310

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
	Maintenance	Reopening	<input type="checkbox"/>	NA	
		Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 310
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel	<input type="checkbox"/>	NA		Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Lucas Trail

Category Permanent

Location Off Slarkes Road

Length (m) 500

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 500
		Repair surface	<input checked="" type="checkbox"/>	Rutted sections	
		Crown/Crossfall	<input checked="" type="checkbox"/>		
		Gravel	<input checked="" type="checkbox"/>	Approaches to crossing A	Gravel Length (m) 20
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>		Remove vegetation only in accordance with general condition 5	
	Remove trees <20 cm	<input checked="" type="checkbox"/>		In accordance with general condition 5	
	Batter Repair/Upgrade	<input type="checkbox"/>		NA	
Drainage	Culverts	<input type="checkbox"/>		NA Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>		Sets:	
	Belts/Channels	<input type="checkbox"/>		Sets:	
	Drop Downs	<input type="checkbox"/>		Sets:	
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES STANDARD GRADE & MAINTAIN CROSSING AND APPROCHES					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name McLeods trail

Category Temporary

Location Off Bamboo Trail

Length (m) 530

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 530
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel		<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>		Remove vegetation only in accordance with general condition 5	
	Remove trees <20 cm	<input checked="" type="checkbox"/>		In accordance with general condition 5	
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name PP Trail

Category Temporary

Location Off Woods Trail (North)

Length (m) 920

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 920
		Repair surface	<input checked="" type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel		<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES STANDARD GRADE & REMOVE VEGE FROM ROAD PRISM & INSTALL TEMPORARY GATE AT PP BOUNDARY (Requires Permit to Enter (held on file) & neighbour consultation prior to roadwork)					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name **Starkes Road**

Category **Permanent**

Location **Off Lucas Trail**

Length (m) **1340**

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 1340
		Repair surface	<input checked="" type="checkbox"/>	Rutted sections	
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel		<input checked="" type="checkbox"/>	boggy sections	Gravel Length (m) 40	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES STANDARD GRADE & REMOVE VEGE FROM ROAD PRISM & GRAVEL BOGGY SECTIONS					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Smithys Trail

Category Temporary

Location Off Coblers Trail

Length (m) 740

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 740	
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
	Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input checked="" type="checkbox"/>	Sets: 1		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM & REPLACE RODS WITH RUBBER FLAPS					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Wards Trail

Category Temporary

Location Off Slarkes Road

Length (m) 560

		WORKS	YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS	
Site Info	Works >30 Slopes		<input type="checkbox"/>		
	Mass Movement		<input type="checkbox"/>		
	Dispersible		<input type="checkbox"/>		
Pavement	Upgrade	Widening	<input checked="" type="checkbox"/>	Location At intersection of Slarkes Rd Formation Width (m) 4.2M Curve Widening YES Upgrade Length (m) 10 Upgrade Spoil INCORPORATE INTO ROAD	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>		Maintenance Length (m) 550
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
		Gravel	<input type="checkbox"/>	NA	Gravel Length (m) 0
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>		Remove vegetation only in accordance with general condition 5	
	Remove trees <20 cm	<input checked="" type="checkbox"/>		In accordance with general condition 5	
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM & WIDEN INTERSECTION WITH SLARKES RD TO ALLOW TRUCK ACCESS FROM EAST					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Woods Trail (North)

Category Temporary

Location Off Bamboo Trail

Length (m) 1430

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 1430	
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
	Gravel	<input checked="" type="checkbox"/>	Approaches to crossing B	Gravel Length (m) 20	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input checked="" type="checkbox"/>	Sets: 5		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE, REMOVE VEGE FROM ROAD PRISM & REPLACE BRIDGE & Replace ROD's with RF's					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Road Name Woods Trail (South)

Category Temporary

Location Off Bamboo Trail

Length (m) 480

WORKS		YES	INSTRUCTIONS/SITE SPECIFIC CONDITIONS		
Site Info	Works >30 Slopes	<input type="checkbox"/>			
	Mass Movement	<input type="checkbox"/>			
	Dispersible	<input type="checkbox"/>			
Pavement	Upgrade	Widening	<input type="checkbox"/>	Location NA Formation Width (m) NA Curve Widening NA Upgrade Length (m) 0 Upgrade Spoil	
		Grade Lowering	<input type="checkbox"/>	NA	
		Realignment	<input type="checkbox"/>	NA	
		Reopening	<input type="checkbox"/>	NA	
	Maintenance	Clear veg/debris	<input checked="" type="checkbox"/>	Maintenance Length (m) 480	
		Repair surface	<input type="checkbox"/>		
		Crown/Crossfall	<input checked="" type="checkbox"/>		
Gravel		<input type="checkbox"/>	NA	Gravel Length (m) 0	
Roadside/Batters	Remove trees >20 cm	<input checked="" type="checkbox"/>	Remove vegetation only in accordance with general condition 5		
	Remove trees <20 cm	<input checked="" type="checkbox"/>	In accordance with general condition 5		
	Batter Repair/Upgrade	<input type="checkbox"/>	NA		
Drainage	Culverts	<input type="checkbox"/>	NA	Size: Sets:	
	Mitres	<input checked="" type="checkbox"/>			
	ROD/Spoon	<input type="checkbox"/>	Sets:		
	Belts/Channels	<input type="checkbox"/>	Sets:		
	Drop Downs	<input type="checkbox"/>	Sets:		
	Silt Trapping	<input type="checkbox"/>			
Comments: REQUIRES LIGHT GRADE & REMOVE VEGE FROM ROAD PRISM					

Start Date:

Finish Date:

Soil Stabilisation Date (must be within 5 days):

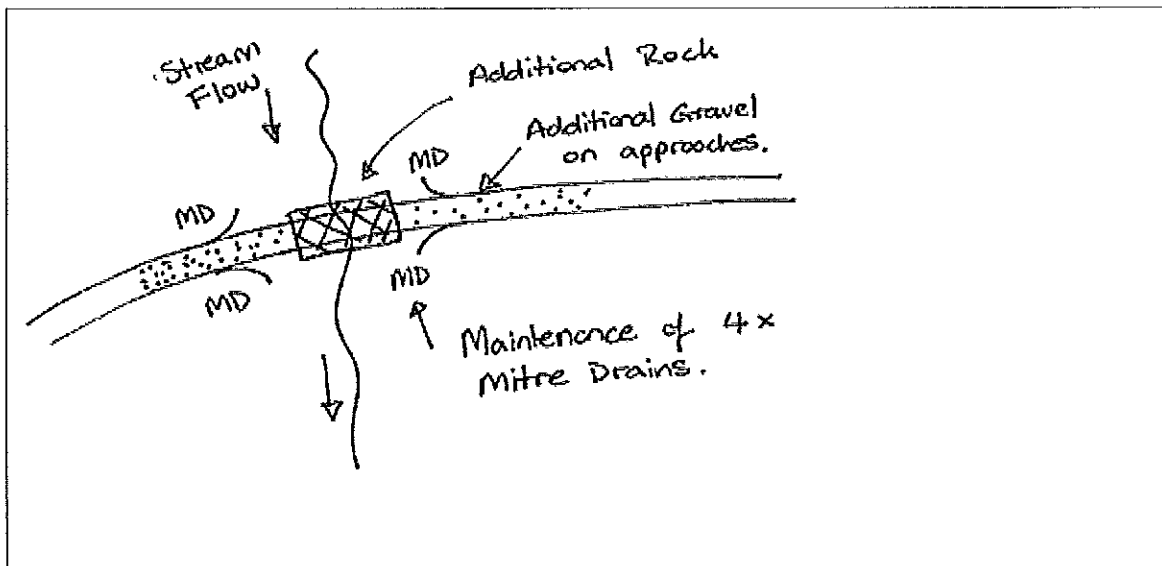
Date	Event	Initial

Crossing Works

Crossing Name Crossing A Road Name LucasTrail Location See Operational Map
 Drainage Feature 3rd order DL Stream Permanency Permanent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Causeway	NA	Unstable	Existing	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	1 x load of small rock on crossing, plus 1 x load of gravel on approaches and clean MD's	Approaches	NA
Reshape Bed/banks	NA	Temporary Drainage	NA
Disposal of Spoil	NA	5-30m Upstream Left	Mitre
Inlet	Nil	5-30m Upstream Right	Mitre
Outlet	Armour with rock	Practices where no 5-30	
Stabilisation	NA	OutletControl	Rock armoring & natural vege
ErosionControl	Natural Vegetation	TableDrain	Natural Vegetation



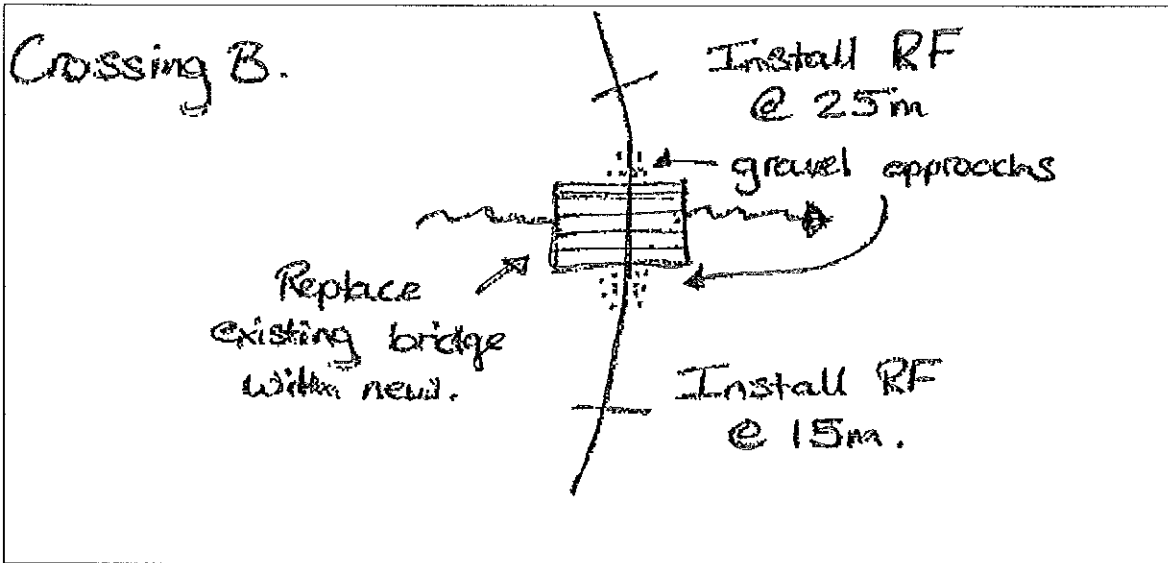
Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Crossing Name Crossing B Road Name Woods Trail (north) Location See Operational Map
 Drainage Feature 3rd order DL Stream Permanency Permanent

Existing Crossing	Size	Stability Status	Crossing Required	Size (mm/m)	Future
Bridge	NA	Unstable (replace)	Bridge	NA	Permanent

Crossing Works		Approaches and Road Drainage	
Pavement/Structure	Remove existing bridge and replace with new bridge - reuse decking where appropriate	Approaches	NA
Reshape Bed/banks	NA	Temporary Drainage	NA
Disposal of Spoil	Remove from site	5-30m Upstream Left	Mitre
Inlet	Nil	5-30m Upstream Right	Mitre
Outlet	Nil	Practices where no 5-30	
Stabilisation	Jutemesh and seed disturbed batters	OutletControl	Rock armoring & natural vege
ErosionControl	Natural Vegetation	TableDrain	Natural Vegetation



Start Date: Finish Date: Soil Stabilisation Date (must be within 5 days):

Date	Event	Initial

Pre Operational briefing

I acknowledge that I have received a copy of the Roadworks Plan for Compartments 38 & 39 Pine Creek 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.

Inducted By (Signature):		Name:	
	Harvest Planner	Date:	
Signature:		Name:	
Position	Roading Co-Ordinator	Date:	

Staff/Contractor Acknowledgment

I acknowledge that I have received a copy of the Roadworks Plan for Compartments 38 & 39 Pine Creek State Forest and that I understand the conditions of the Plan as explained to me by a Forests NSW officer.

Personnel attending Induction

Personnel (Print Name and sign)	Date	Inducted By (Print Name and sign)	Date

This pre operation briefing must be returned to NER on completion of Operations and filed with the official copy of the plan.

FORM 8 – Roading Foreman Notes

- This diary should record general daily events that are not applicable to a specific road/crossing and any additional comments regarding this works plan.

Date	Event	Initial