

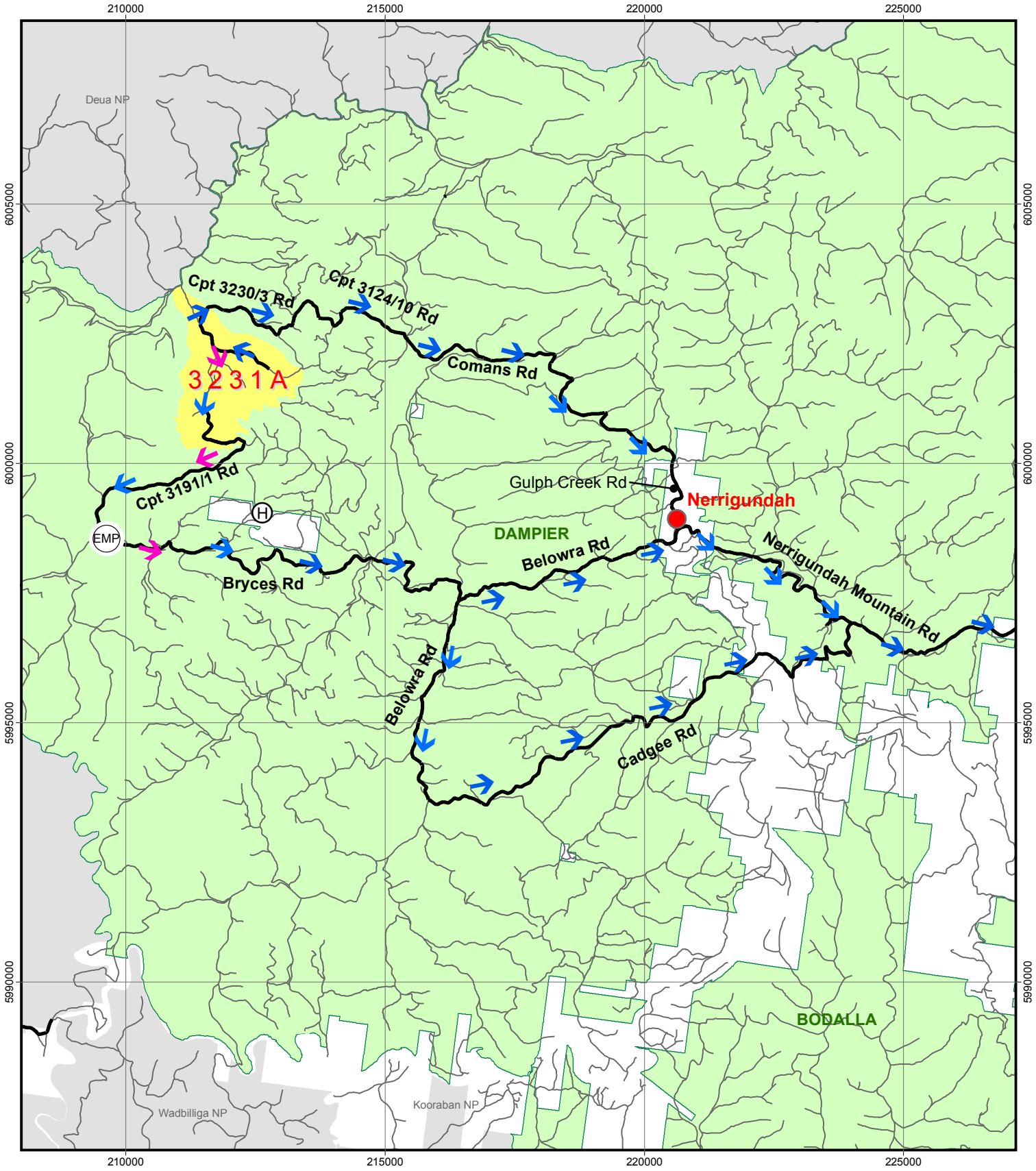


Scale 1:100,000
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 Map Sheets: Mapsheet:NERRIGUNDAH(8825-1N);
 Plan No:200000101
 Plan Name:HPRP_DAMPIER_3231A_2019

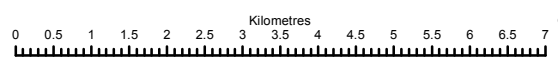
FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION
HARVEST PLAN LOCALITY SITE SAFETY MAP
DAMPIER Forest
Cpt No: 3231A
MANAGEMENT AREA

Prepared by: emily.baggs
 Date: 12/11/2019

Version 1



- Compartment of Interest
- Haulage route
- Emergency Meeting Points
- Other roads - non haulage
- H Helicopter Landing Site
- State Forest
- National Park Estate
- Towns
- Haulage Route
- Evacuation Route



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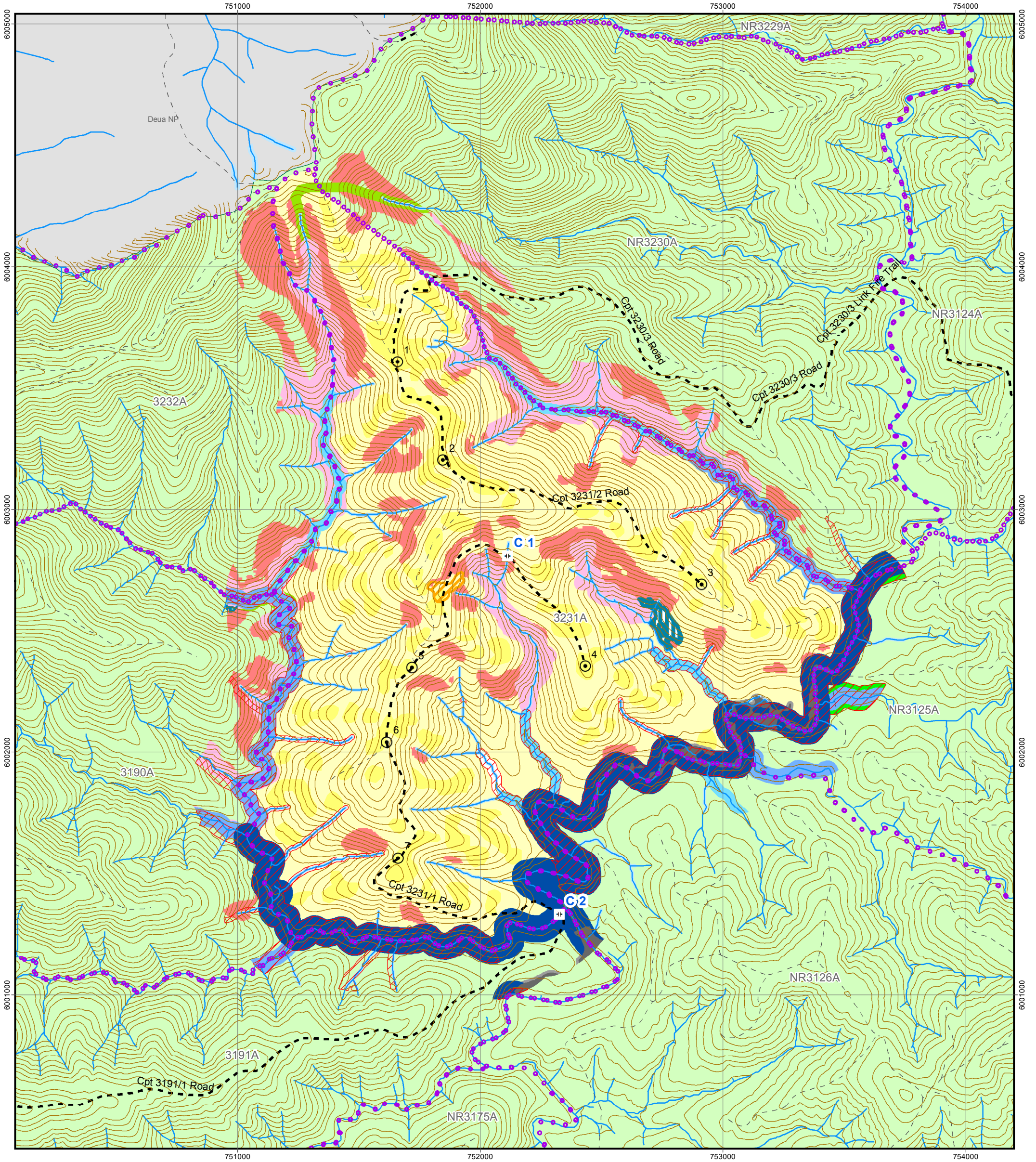
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FORESTRY CORPORATION OF NSW, HARDWOOD FORESTS DIVISION
HARVEST PLAN HARVEST MAP
DAMPIER Forest
Cpt No: 3231A
MANAGEMENT AREA

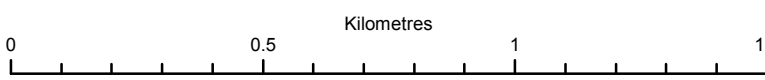
Prepared by: emily.bags
 Date: 11/12/2019



Version: 1



- | | | | |
|----------------------------|--|--|---|
| Compartment boundaries | Area of mass movement | River-flat eucalypt forest TEC | Class 2 Drainage Line SEZ's (20m either side) |
| Dry weather dump | Large Forest Owl EZs | Class 1 Drainage Line SEZ (5m either side) | Class 3 Drainage Line SEZ's (30m either side) |
| Pipe crossing | FMZ 4 - Selective Harvesting (2010 Harvest Area) | River-flat eucalypt forest TEC EZ (10m) | Class 4 Drainage Line SEZ's (50m either side) |
| Other Roads - Non Haulage | FMZ 4 - Selective Harvesting | Ridge and Headwater | State Forest |
| Haulage Road - Dry Weather | Wildlife Habitat Clump (<2ha) | FMZ 2 and 3A (Wildlife) | National Park Estate |
| Drainage | Rainforest + EZ (20m) | Slope over 30 | |





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Hardwood Forests Division
Harvest and Haul Plan



Operational Area Identification

| | | | |
|----------------------------|--|--|---------------------|
| Type of Forestry Operation | | Harvesting and Rooding Operation | |
| State Forest/s | Dampier | Compartment/s | 3231A |
| Crown-timber Land | NA | Local Landscape Area | Dampier_1 |
| Harvesting Zone | Selective | Regrowth Zone | Regrowth Zone |
| Operational Area | Selective Harvesting (FMZ 4) area and Haulage Roads within compartment 3231A – refer to Operational Area map. Forestry operations may only be carried out within the operational area. | | |
| Plan ID | 200000101 | | |
| Legal Conditions | <p>Native Forest Harvesting in accordance with Coastal Integrated Forestry Operations Approval conditions.</p> <p>To implement this plan you must hold a current Contractor’s Licence.</p> <p>Standard Operating Procedures apply.</p> <p>Survey expiry date for this plan is 06/09/2026</p> | | |
| Certification | <p>Responsible Wood Certificate 604224 and ISO14001 Certificate 604225</p> <p>Timber products removed from the plan area are within the Defined Forest Area covered by the Australian Standard for Sustainable Forest Management (AS4708:2013) Certificate 604224.</p> | | |
| Prepared by | Emily Baggs |  | Date: 05/09/2019 |
| Approved by | Shane Clohesy |  | Date: 11/12/2019 |
| Abbreviations | <p>CH = Cultural Heritage CIFOA = Coastal Integrated Forestry Operations Approval Crew = Harvest Contractor/Forest Operators ESA = Environmentally Significant Area EZ = Exclusion Zone FMA = Fisheries Management Act FT = Forest Technician HC = Harvesting Coordinator</p> <p>HS = Harvesting Supervisor OM = Operational Map OPM = Operational Planning Manager PS = Planning Supervisor PtS= Protection Supervisor RC = Rooding Coordinator SOP = Standard Operating Procedure TRC = Tree Retention Clump WHC = Wildlife Habitat Clump</p> | | |

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1. Harvesting Operation Details

| | |
|-------------------------|-----------|
| | Cpt 3231A |
| Gross Area | 427 |
| Base Net Area (BNA) | 306.9 |
| TRC area | 15.3 |
| Estimated NHA | 290.4 |
| Slope (% 0-20 degrees) | 30 |
| Slope (% 20-25 degrees) | 30 |
| Slope (% 25-30 degrees) | 28 |

All areas are in hectares

2. Expected Species and Yield

| Species for harvest | Species Mix % (sawlog) |
|---------------------|------------------------|
| YS | 55 |
| STA | 35 |
| OTHER | 10 |

| Product Removal | Volume (m3) |
|-------------------------|-------------|
| HQ Large Sawlog (Quota) | 2000 |
| HQ Small Sawlog | 50 |
| Low Quality (Salvage) | 900 |
| Pulpwood | 800 |
| Firewood | 1200 |
| Total | 4950 |

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

3. Management Conditions

| Boundary | Conditions |
|-------------------|--|
| SMZ / FMZ | <p>FMZ 3A – Harvesting Excluded and FMZ 4 – General Management occur within the compartment and are shown on the OM.</p> <p>FMZ 3A – Harvesting and harvesting machinery are not permitted in these areas.</p> |
| Research | Any inventory plots located during the harvesting operation are to be treated the same as the surrounding area. |
| National Park | National Park forms the northern boundary of the compartment and is shown on the OM. The crew must apply the boundary as mapped. The crew must ensure access roads to the National Park are not impeded by forestry activities and the roads condition is maintained. |
| Cultural Heritage | <p>Surveys have been conducted. Exclusion zones for heritage items/places occur within the compartment and have been marked for protection. Immediately prior to harvesting the marking must be checked by the HC.</p> <p>Crew induction must involve a visual inspection of all CH sites prior to the commencement of harvesting/roading operations.</p> <p>If any potential heritage sites are identified they should be recorded on FCMapp, and the ACHO notified immediately. A 20m interim buffer must be observed pending further investigation.</p> |

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| | |
|------------------------------------|--|
| Haulage | <p>Route - North east via Cpt 3230/3 Rd, Cpt 3124/10 Rd, Comans Rd, Gulph Creek Rd, Nerrigundah Mountain Rd, Eurobodalla Rd to the Princes Hwy. Or south via 3191/1 Rd, Bryces Rd, Belowra Rd, Cadgee Rd, Nerrigundah Mountain Rd, Eurobodalla Rd to the Princes Hwy.</p> <p>School Bus Routes - Eurobodalla road and Nerrigundah Mountain Road are used by school buses between the hours of 7:00am to 9:30am and 3:20pm to 5:00pm. On weekdays, to the greatest extent practicable, log haulage should avoid school bus times on the above roads.</p> <p>Dust & Mud - Where log haulage routes pass close to rural housing along natural surface/gravel roads dust and noise must be minimised to the greatest extent practicable. Trucks should reduce speed, restrict use to daylight hours and minimise the use of engine brakes through these areas.</p> <p>Operating Hours - Restrictions apply to haulage contractors travelling through Nerrigundah where operating hours will be limited to between 7am and 7pm Monday to Sunday. Outside of these hours trucks must use the alternate route of Cadgee Road.</p> |
| Community | Notifications - All relevant notifications have been conducted. A notification list for FCNSW staff is available from the planner. |
| Infrastructure | Existing Fire Trails - Roads used for haulage should be left in a trafficable condition, free of harvesting debris and any installed rollovers must be trafficable. |
| Control Lines for Post Log Burning | Any new tracks constructed for use as control lines must comply with SOP 8. |

4. Harvesting Conditions

| Silviculture Type | Harvesting Objectives and Stand Condition | | | | | | |
|--|--|--|-----------|-------------------|-----------|--|----|
| Selective | <p>The compartment is uneven-aged and variable. Parts of the compartment were previously harvested in 2008 under an AGS operation.</p> <p>The objective is to harvest the merchantable component of the mature aged crop and retain vigorous younger age class trees for a future cut.</p> <p>Crew is to select trees for removal and avoid damage to growers.</p> | | | | | | |
| Regeneration Requirements | Retain advance growth (growers) and create a seed bed via mechanical disturbance across the harvested area. | | | | | | |
| Regeneration Risks and Mitigation | Risk of regeneration failure in this compartment is low. No special mitigation measures are required. | | | | | | |
| BA Monitoring | <p>The HC must conduct Basal Area monitoring as per CIFOA Protocol 7 in areas treated with Selective Harvesting. The minimum BA limits are shown below.</p> <table border="1" data-bbox="427 1644 1305 1832"> <thead> <tr> <th></th> <th>Cpt 3231A</th> </tr> </thead> <tbody> <tr> <td>Harvest Intensity</td> <td>Selective</td> </tr> <tr> <td>Selective Harvesting Limits – Minimum BA (m²)</td> <td>10</td> </tr> </tbody> </table> | | Cpt 3231A | Harvest Intensity | Selective | Selective Harvesting Limits – Minimum BA (m ²) | 10 |
| | Cpt 3231A | | | | | | |
| Harvest Intensity | Selective | | | | | | |
| Selective Harvesting Limits – Minimum BA (m ²) | 10 | | | | | | |

| | | |
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5. Operational Responsibilities

| Prescription | Condition/Responsibility | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------|-----------------|--------------------|-------|--------------------|-------|---------------|-------|-----------|------------------|--------------|------------------|-------------------|------------------|------------|------------------|----------------------|------------------------|----------------|------|-----------------------|------|-----------------|-------------------------------|
| <p>Mark-Up – the FT is responsible for marking up the forest ahead of harvesting operations consistent with SOP 4 – Tree Retention and Tree Retention Clumps, and SOP 3 – Broad Area Habitat Searches</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Broad Area Habitat Search | <p>Broad Area Habitat Searches must be completed in a 10 hectare patch before harvesting operations can commence in that patch.</p> <p>Broad Area Habitat Searches must extend to cover areas up to 100m outside of the base net area and must search for threatened and protected species features as described in SOP 3.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| Known or Potential Habitat | <p>The following subject species have known or potential habitat in this operational area:</p> <table border="1"> <thead> <tr> <th>Species</th> <th>Habitat feature</th> </tr> </thead> <tbody> <tr> <td>Gang-gang Cockatoo</td> <td>Nests</td> </tr> <tr> <td>Square-tailed Kite</td> <td>Nests</td> </tr> <tr> <td>Scarlet Robin</td> <td>Nests</td> </tr> <tr> <td>Sooty Owl</td> <td>Nests and roosts</td> </tr> <tr> <td>Powerful Owl</td> <td>Nests and roosts</td> </tr> <tr> <td>Regent Honeyeater</td> <td>Nests and roosts</td> </tr> <tr> <td>Masked Owl</td> <td>Nests and roosts</td> </tr> <tr> <td>Spotted-tailed Quoll</td> <td>Dens and latrine sites</td> </tr> <tr> <td>Greater Glider</td> <td>Dens</td> </tr> <tr> <td>Yellow-bellied Glider</td> <td>Dens</td> </tr> <tr> <td>Stuttering Frog</td> <td>Conspicuous frog and tadpoles</td> </tr> </tbody> </table> | Species | Habitat feature | Gang-gang Cockatoo | Nests | Square-tailed Kite | Nests | Scarlet Robin | Nests | Sooty Owl | Nests and roosts | Powerful Owl | Nests and roosts | Regent Honeyeater | Nests and roosts | Masked Owl | Nests and roosts | Spotted-tailed Quoll | Dens and latrine sites | Greater Glider | Dens | Yellow-bellied Glider | Dens | Stuttering Frog | Conspicuous frog and tadpoles |
| Species | Habitat feature | | | | | | | | | | | | | | | | | | | | | | | | |
| Gang-gang Cockatoo | Nests | | | | | | | | | | | | | | | | | | | | | | | | |
| Square-tailed Kite | Nests | | | | | | | | | | | | | | | | | | | | | | | | |
| Scarlet Robin | Nests | | | | | | | | | | | | | | | | | | | | | | | | |
| Sooty Owl | Nests and roosts | | | | | | | | | | | | | | | | | | | | | | | | |
| Powerful Owl | Nests and roosts | | | | | | | | | | | | | | | | | | | | | | | | |
| Regent Honeyeater | Nests and roosts | | | | | | | | | | | | | | | | | | | | | | | | |
| Masked Owl | Nests and roosts | | | | | | | | | | | | | | | | | | | | | | | | |
| Spotted-tailed Quoll | Dens and latrine sites | | | | | | | | | | | | | | | | | | | | | | | | |
| Greater Glider | Dens | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow-bellied Glider | Dens | | | | | | | | | | | | | | | | | | | | | | | | |
| Stuttering Frog | Conspicuous frog and tadpoles | | | | | | | | | | | | | | | | | | | | | | | | |
| Marking Retained Trees | <p>FT must select and mark trees to meet the requirements below. The location of retained trees must be recorded on FCMapApp.</p> <p>Hollow-bearing tree condition – 8 per ha must be retained where available (marked with “H”)</p> <p>Giant trees – 160cm (BBT only) / 140cm (all other spp) at stump height (30cm) (marked with “L”)</p> <p>Glider Sap feed trees – All (marked with “E”)</p> <p>Glossy-black Cockatoo feed trees – All (marked with Pink tape)</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| Tree Retention Clumps | <p>FT must select and mark 5% of the BNA in each compartment (see Harvesting Operation Details) with pink and yellow tape, and/or on FCMapApp; Refer to SOP 4</p> <p>Tree retention clumps are to be a minimum 0.1 ha and maximum 2 ha.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| Identification of channel heads | <p>FT will mark the location of Class 1 Drainage Line and Unmapped Drainage Line channel heads in the field with pink tape, and on FC MapApp; Refer to SOP 1</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Operational Management; The HC and Harvesting Crew are responsible for the management of operations consistent with SOP 1, SOP 4, Implementing Silvicultural prescriptions and monitoring BA</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

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|------------------------------|---|
| Protection of Retained Trees | Trees marked or selected for retention must not be felled or damaged. Damaged trees must be replaced with a comparable tree. Where a comparable tree is not available, it must be replaced with a mature tree, with healthy crown. Damaged and replaced trees must be recorded in the FCMapApp. Harvesting debris should not accumulate within 5 m of retained trees. Where debris does accumulate the crew must remove or flatten to <1m high. Where removal or flattening of debris will damage a retained tree, or deliver a worse outcome, this must be documented in the FCMapApp. |
| Dead Standing Tree Retention | Stags/dead standing trees must be retained where safe to do so. |
| Coarse Woody Debris | Coarse woody debris is not permitted to be removed from this compartment due to Scarlet Robin record (Table 3 Condition 62). |
| Accidentally Felled Trees | The crew must record each tree accidentally felled into an ESA in accordance with SOP 4. |
| Dangerous Trees | The crew must record each dangerous tree or stag removed in accordance with SOP 4. |
| Elite/Plus Trees | Retain and protect the elite tree/s identified on the OM, and any others encountered (whether marked or not). |
| Impenetrable Understorey | In areas mapped by the FT as Impenetrable Understorey, the required number of retained trees identified must be retained and recorded in the FCMapApp by the Crew. |

6. Riparian Protection

| Prescription | | | | |
|--|-------------------------|-----------------------|-------------------|------------------------|
| See SOP 1 for instruction and guidance around marking of riparian zones. | | | | |
| Table 6b below identifies exclusion zone and ground protection zone widths for all streams within Compartment 3231A. | | | | |
| Table 6b | | | | |
| Drainage Category | Riparian Exclusion Zone | | GPZ | Marking Responsibility |
| | Minimum width (m) | ESA Category | Minimum width (m) | |
| <i>Drainage depression (mapped or unmapped)</i> | n/a | n/a | 5 | Crew + GPS |
| <i>Unmapped drainage line</i> | 5 | <i>Category 1 ESA</i> | 10 | Crew + GPS |
| <i>Class 1 classified drainage line</i> | 5 | <i>Category 1 ESA</i> | 10 | Crew + GPS |
| <i>Class 2 classified drainage line</i> | 20 | <i>Category 2 ESA</i> | 0 | Crew + GPS |
| <i>Class 3 classified drainage line</i> | 30 | <i>Category 2 ESA</i> | 0 | Crew + GPS |
| <i>Class 4 (and above) classified drainage line</i> | 50 | <i>Category 2 ESA</i> | 0 | Crew + GPS |

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7. Ecologically Significant Areas

FT's are responsible for identifying; Harvesting Crews are responsible for protection of the following ESA's in line with requirements of SOP 2:

| Condition | Mapped Known Features | Boundary ID |
|---|---|-------------------------------|
| ESA 1 (hard boundary) | Rainforest | GPS |
| | Threatened Ecological Communities (certified) | GPS |
| | Wildlife habitat clumps <= 2 hectares | GPS |
| | Tree retention clumps | Pink & Yellow Tape and/or GPS |
| ESA 2 (soft boundary) | Ridge & headwater habitat | GPS |
| | Large Forest Owl Exclusion Zones | GPS |
| | EZ's associated with a Threatened Ecological Community | GPS |
| | Land mapped as FMZ 2 or FMZ 3A that is not also ESA 1 | GPS |
| | IHL 4 | GPS |
| Features identified during broad area search / harvesting | Tree retention clumps and field identified ESA's will be marked on the FCMapApp. Harvesting contractors must synchronise their FCMapApp before commencing operations in each patch. All field identified features must be protected according to the relevant ESA Category boundary type. | |

8. Soil & Water

| Issue | Assessment | Conditions |
|--|------------|---|
| Inherent hazard level | 2 | |
| Soil regolith types | R1 R2 | |
| Dispersible Soils | No | |
| Existing or potential Mass Movement hazard | Yes | <ul style="list-style-type: none"> An area of mass movement occurs on Cpt 3231/1 Rd and is shown on the OM. This area has been excluded from harvesting and is recommended to be mapped as a Tree Retention Clump. Apply site-specific operating conditions as per SOP 14. Localised mass movement forming hollows around the heads of 1st order streams are not uncommon in this terrain. HC should pay extra attention around these areas when locating extraction tracks. Fill batters on slopes >30° must be compacted and extra protection around drainage features may be required. |
| Historical or existing erosion | No | Nil |
| Seasonality Restrictions | No | Nil |
| Burning conditions | No | Nil |
| Log Dumps | SOP 5 | HC is responsible for authorising moving the location of a log dump. |
| Roading management during harvesting | SOP 6 | HC is responsible for monitoring road and crossing drainage and stability during haulage. |

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| | | |
|--|-------|---|
| Wet Weather and Rutting | SOP 6 | Crew is responsible for implementing automatic closures and following notified closures. HC is responsible for ensuring crew notified when notified closure is lifted. |
| Snigging | SOP 8 | Crew is responsible for progressive drainage of snig tracks |
| Track Crossings (snig or extraction tracks) | SOP 8 | HC is responsible to ensure snig track crossings are approved prior to use and rehabilitated upon completion. |

9. Snig Track Crossing Approvals

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

| Crossing Name | Crossing Type | Approval | Class 1 Aquatic Habitat | Site Specific Works and other conditions |
|---------------|---------------|----------|-------------------------|--|
| | | | | |
| | | | | |

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

| Procedure Number | Title |
|------------------|--|
| 1 | Riparian Protection |
| 2 | Management of ESAs |
| 3 | Broad-area habitat search |
| 4 | Tree Retention and Tree Retention Clumps |
| 5 | Log Dumps |
| 6 | General Soil and Water for harvesting contractors |
| 7 | Safety Requirements |
| 8 | Snigging & Snig Track Crossings |
| 9 | Tree Felling & Servicing of Logs & Products |
| 10 | Fire Precautions & Other Miscellaneous Requirements for Harvesting Contractors |
| 14 | Mass Movement |

| | | |
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11. Roothing Plan: Works not completed by RC must be recorded and passed onto the HC for completion and documentation. The start and finish dates of all maintenance and construction must be recorded on the individual roading sheets within the HC Notes excel document in OneDrive, along with other relevant changes or explanations. All rubber flaps on minor forest roads must be removed and replaced with trafficable rollover banks on completion of operation.

| Summary of roading requirements | | |
|-----------------------------------|----------|----------------|
| Feature | Details | Works Required |
| Existing roads to be used. | 5,928m/2 | Yes |
| New roads to be constructed | 0 | NA |
| Existing crossings used | 2 | Yes |
| New crossings to be constructed | 0 | NA |
| Borrow pits and gravel pits | 0 | NA |
| Mass movement prescriptions apply | No | NA |
| Dispersible soil conditions apply | No | NA |
| Seasonality provisions apply | No | NA |
| Potential or existing erosion | No | NA |
| Flora Road Management Plans apply | No | NA |

| Fish Habitat (Protocols 17 & 18) | Nil |
|---|-----|
| There is no Class 1 Aquatic Habitat in this roading area. | |

| Roading Work Summary Table – The following roads are to be constructed, upgraded or maintained in accordance with and to standards detailed within roading SOP's See HC Notes documentation (on OneDrive) for Roading Works Completed information | | |
|--|-----------------|--|
| Road Name | Existing or New | Site-specific works and other conditions |
| Cpt 3231/1 Rd (3,255 m) <i>Contractor Responsibility</i> | Existing | <ul style="list-style-type: none"> Grade pavement. Remove/lop roadside vegetation, as required. Clean pipes and lateral drainage as required to ensure water is diverted off the road surface. Refer to drain spacing guidelines in roading SOP. Apply site-specific operating conditions as per SOP 14 for area of mass movement. |
| Cpt 3231/2 Rd (2,672 m) <i>Contractor Responsibility</i> | Existing | <ul style="list-style-type: none"> Grade/reshape pavement with crown and outfall. Reinstate existing lateral drainage and install additional drainage as required to ensure water is diverted off the road surface. Refer to drain spacing guidelines in roading SOP. Remove/lop roadside vegetation, as required. |

| Road Crossing Summary Table – The following crossings are to be constructed, upgraded or maintained in accordance with and to standards detailed within roading SOP's See HC Notes documentation (on OneDrive) for Roading Works Completed information | | | | |
|---|-----------------|---------------------|------------------------------------|--|
| Crossing Name | Existing or New | Type | Stability of structure and surface | Site-specific works and other conditions |
| C1 | Existing | Culvert pipe, 375mm | Stable | Clean inlets/outlets |
| C2 | Existing | Culvert pipe, 375mm | Stable | Clean inlets/outlets |

| | | |
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