




















- |   |  |  |
|---|--|--|
|  Evacuation/Haul Route   |  Water Bodies                   |  Softwood Plantations (Zone 6) |
|  Towns/Localities        |  Compartments                   |  Non Forestry Use (Zone 7)     |
|  Emergency Meeting Point |  Native Forests selection       |  National Park                 |
|  Heli Landing Site       |  Special Management (Zone 2)    |  NPWS_Vested                   |
|  Road - Sealed           |  Harvesting Exclusion (Zone 3A) |  Vacant Crown Land             |
|  Road - Major Forest     |  Special Prescription (Zone 3B) |  |
|  Main Rivers             |  General Management (Zone 4)    |  |

# Harvest Plan Operational Map

Compartment: 2422

State Forest: TALLAGANDA No: 577

SOUTHERN IFOA SOUTH COAST SUB REGION

Map Sheet: BOMBAY, BENDOURA 8827-3S, 8826-4N



Prepared By: Darryl Chaffey  
Version: 6

REGIONAL MANAGER APPROVAL

L APPROVED: Daniel Tuan

DATE: 23.07.2012

## BOUNDARIES

- State Forest Boundary
- Compartment Boundary

## TENURE

- Private Property

## ROADS

- Minor Forest
- EPL Standard Existing (Minor)
- EPL Licenced New Construction

## NET HARVEST AREA

- FMZ 4 - STS Heavy
- FMZ 4 - Harvested 1998, STS Heavy
- FMZ 4 - STS Medium
- Vacant Crown Land-STS Medium

## DUMPS & CROSSINGS

- Temporary Dry Weather
- Existing Crossing
- Turning Circle
- Upgrade/New Crossing

## NON HARVEST AREA

- Special Management (FMZ 2)
- Harvesting Protection (FMZ 3A) 50m each side
- Ridge & Headwater Habitat (40m total width)
- Rare & Non Commercial Forest Types
- Owl Landscape
- Wetland & 10m Buffer
- Excluded Forest (cleared)
- Vacant Crown Land-not available for harvest

## FAUNA FEATURES

- Spotted-tailed Quoll
- Powerful Owl
- Gang-gang Cockatoo
- Greater Glider
- Scarlet Robin
- Flame Robin
- Olive Whistler
- Varied Sittella

- Unmapped Drainage Feature (indicative)
- LiDAR Corrected LIC Drainage

## STREAM EXCLUSION ZONES (EPL IHC 1 & TSL)

Feature	Filter Strip	Protection Zone	Operational Zone
Unmapped	NA	NA	NA
1st Order	5m	5m	10m
2nd order	5m	15m	10m
3rd order	5m	25m	10m
4th order	5m	45m	10m

## NON HARVEST AREA

- Mapped EEC - Tablelands SG, BS, CB & VIM Grassy Woodland (indicative).

6070

69

6068000N

736000E

37

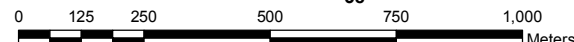
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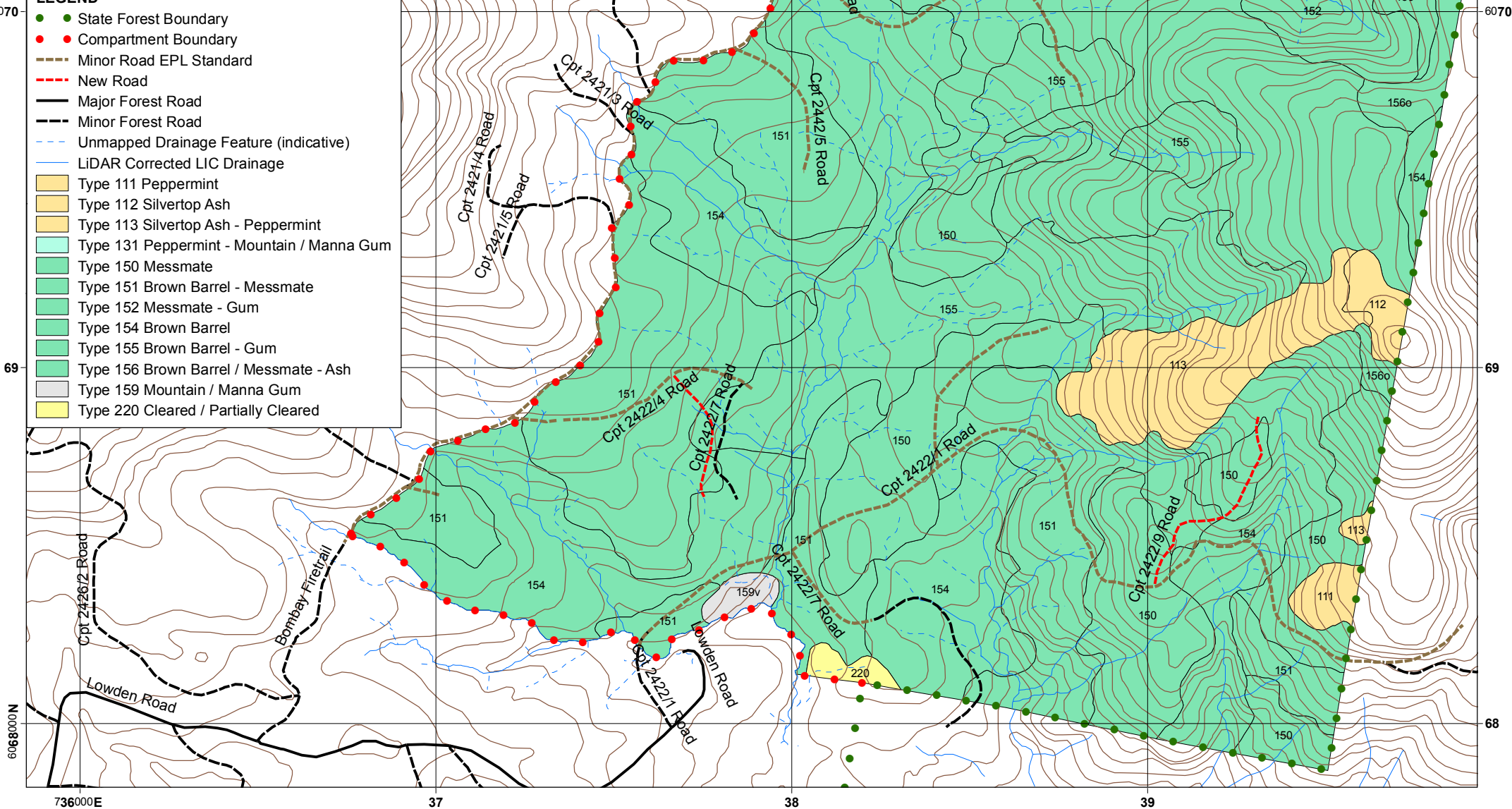
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Contour Interval 10m

Map Sheet: BOMBAY,BENDOURA 8827-3S,8826-4N



- ● State Forest Boundary
- ● Compartment Boundary
- Minor Road EPL Standard
- - - New Road
- Major Forest Road
- - - Minor Forest Road
- - - Unmapped Drainage Feature (indicative)
- LiDAR Corrected LIC Drainage
- Type 111 Peppermint
- Type 112 Silvertop Ash
- Type 113 Silvertop Ash - Peppermint
- Type 131 Peppermint - Mountain / Manna Gum
- Type 150 Messmate
- Type 151 Brown Barrel - Messmate
- Type 152 Messmate - Gum
- Type 154 Brown Barrel
- Type 155 Brown Barrel - Gum
- Type 156 Brown Barrel / Messmate - Ash
- Type 159 Mountain / Manna Gum
- Type 220 Cleared / Partially Cleared







# Resource Unit Map

## Compartment: 2422

### State Forest: TALLAGANDA No: 577

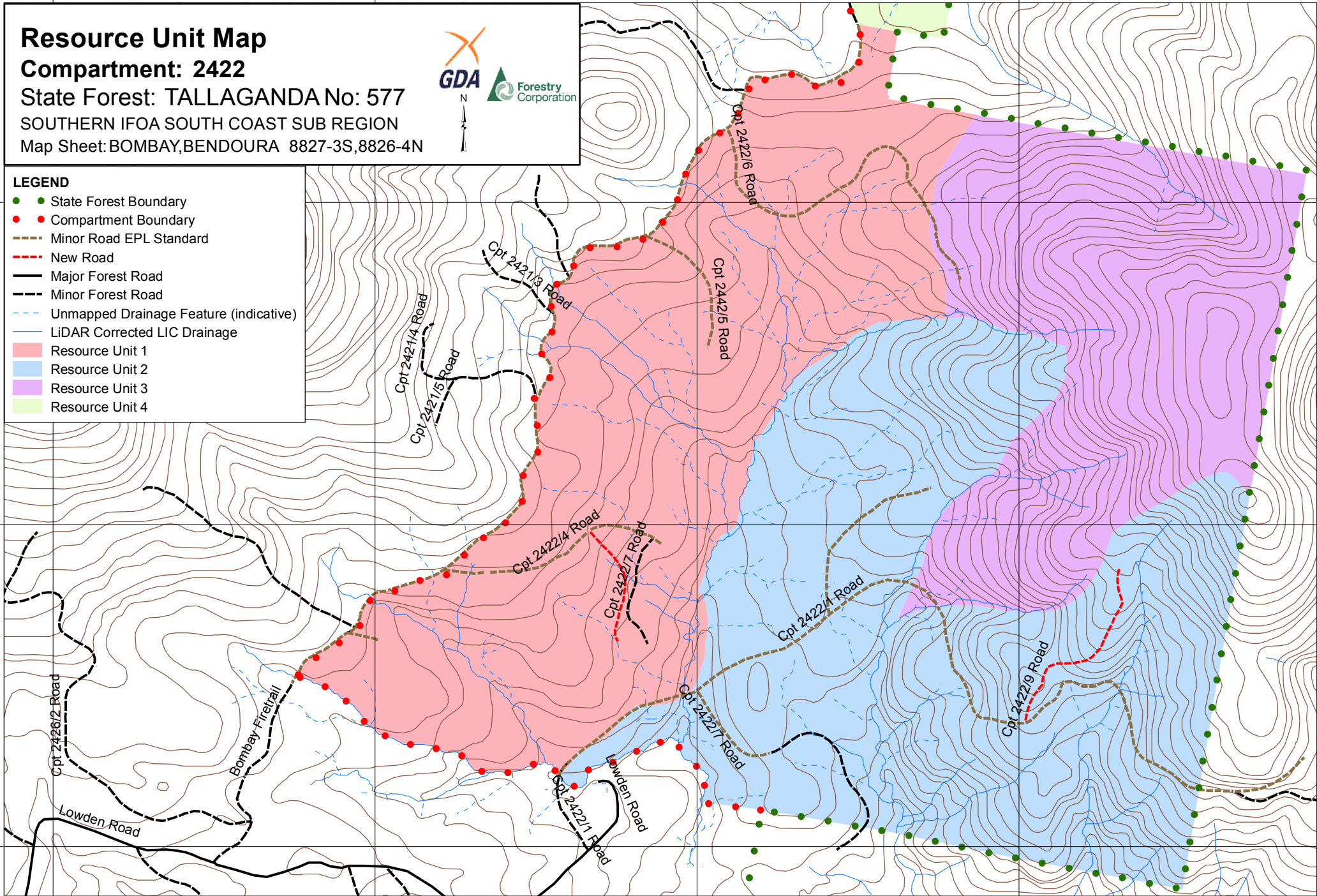
#### SOUTHERN IFOA SOUTH COAST SUB REGION

#### Map Sheet: BOMBAY,BENDOURA 8827-3S,8826-4N

### LEGEND

- State Forest Boundary
- Compartment Boundary
- Minor Road EPL Standard
- New Road
- Major Forest Road
- Minor Forest Road
- - - Unmapped Drainage Feature (indicative)
- - - LiDAR Corrected LIC Drainage
- Resource Unit 1
- Resource Unit 2
- Resource Unit 3
- Resource Unit 4





## FORESTS NEW SOUTH WALES - SOUTHERN REGION HARVESTING PLAN NATIVE FOREST

### Tallaganda State Forest - Compartment 2422

#### Certification

This plan has been prepared in accordance with the Integrated Forestry Operations Approval issued under the Forestry and National Park Estate Act 1998. The Standard Harvest Plan Conditions for Native Forest Operations in Southern Region, South Coast apply to this operation.

Prepared By: Harvest Planner	Kevin Petty	Endorsed by: Planning Manager	Daniel Tuan	Approved by: Regional Manager	Ian Barnes
Signature		Signature		Signature	
Date	12.11.08	Date	20.11.08	Date	1.12.08

Note: Approval includes the Harvest Plan Operational Map (HPOM) with the corresponding approval date displayed on the map, verifying final approved version.

Other maps included with this plan are Locality, Forest Type, Roding and Cultural Heritage (limited distribution).

#### Description of Proposal

##### Harvesting of native forest

Harvesting of native forest using Single Tree Selection Silviculture subject to the Southern Region, IFOA requirements will be undertaken within this planning unit. The primary product of the harvesting is high quality large sawlogs (quota logs), small high quality sawlogs, veneer logs, girders, poles & piles where timber markets are available. Parts of felled logs that do not meet high quality log specifications are segregated and graded into other classifications such as salvage sawlogs, pulp logs & miscellaneous timbers e.g. split & round posts, firewood, mining timbers & craftwood. The availability of miscellaneous timbers depends mainly on forest types, log defectiveness & market conditions at the time of harvesting.

**Note: all conditions contained within the harvest plan, except those relating to burning, are to be applied to Vacant Crown Land Lots 7300 and 7301 on DP 1143250.**

##### Clause 22 – Integrated Forestry Operations Approval (IFOA) Consideration

All relevant factors have been reviewed taking into account the volume and monetary value of each forest product to supply Term Agreement Holders. The harvesting operation also complies with Clause 22 of the IFOA.

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

**Attachment 2:** Roding plan prescribes roding requirements for this harvesting operation.

**Attachment 3:** Burning Plan prescribes burning requirements for this harvesting operation.

Post-harvest burning should be confined as far as practicable to the Net Harvest Area. Site specific burning exclusions associated with Flora, Fauna, Cultural Heritage, Riparian and other exclusion zones are explained within the relevant sections of this Harvest Plan and indicated on the HPOM.

Where practicable, snig track patterns should be designed to double as bare earth control lines to prevent fire entering specified burning exclusion zones and other tenures, i.e. Smoky Mouse, Southern Brown Bandicoot & significant Cultural Heritage sites.

Where this is not practical, the Contract Coordinator is to assess the need for a bare earth break to be constructed close to harvesting exclusion boundaries and seek advice and approval from the Harvesting Team Leader for the additional earth works. Specific areas identified during the planning stage which require a mineral earth break are identified in the burning plan.

#### Area Identification and Yield Estimates

State Forest	Compartment/Lots	Region	Management Area	Certification	Harvest Plan ID
Tallaganda	2422	Southern	Batemans Bay	AS4708:2007 ISO 14001	3319
NA	Lots 7300 and 7301 on DP 1143250	Southern	Batemans Bay	AS4708:2007 ISO 14001	3319

	Cpt	Vacant Crown Land DP 1143250 Lots 7300 & 7301
Event ID	13731	15041 and 15042
Gross Area (ha)	544	NA
Net Harvest Area (ha)	361	15
Quota Logs (HQL)	13m <sup>3</sup> /ha	13m <sup>3</sup> /ha
High Quality Small	0.5m <sup>3</sup> /ha	0.5m <sup>3</sup> /ha
Salvage	13m <sup>3</sup> /ha	13m <sup>3</sup> /ha
Pulp	27 t/ha (23m <sup>3</sup> /ha)	27 t/ha (23m <sup>3</sup> /ha)
Estimated Total Yield (m <sup>3</sup> /ha)	49.5	49.5
Estimated Total Volume (m <sup>3</sup> )	10,300	742

**Forests NSW – Southern Region  
Harvesting Plan HP\_BB\_2422\_08  
Compartment 2422**

**Attachment 1 – Site Safety Plan**

**SAFETY CONSIDERATIONS**

**Emergency Plan Information**

- (a) **Mobile Phone reception on work site:**  
☐ Good ☒ Poor ☐ Nil  
Nearest reliable reception: Cronin Fire Tower
- (b) **Forests NSW Radio from work site:** Channel No: 236  
Call to: Batemans Bay  
Call sign from: Your name
- Contractor Radio at work site:** UHF Channel No:  
Contractor Radio No:  
Call to Bush Boss:
- (c) **Emergency meeting point for ambulance:**  
Intersection of Bombay Fire Trail and Lowden road.  
1:100000 map sheet: Araluen 8826  
MGA zone: 55  
MGA Grid reference: 736501 N6067953.  
Lat/Long for GPS: 35° 30' 13" S 149° 36' 27" E.
- (d) **Closest Helicopter Landing Place:**  
Lowden Shed.  
1:100000 map sheet: Araluen 8826  
MGA zone: 55  
MGA Grid reference: E730728 N6066911.  
Lat/Long for GPS: 35° 30' 53" S 149° 32' 21" E.
- (e) **Procedure for obtaining Ambulance assistance:**  
Dial "000" OR Call Batemans Bay Forestry Office 1300 880 548 for Ambulance assistance.  
Dial "112" only as an alternative to "000" if you have a GSM digital mobile phone and you are outside your own provider's GSM network coverage area.

**"000" Operator Question.**

**Response**

1. Police , Fire , Ambulance? Ambulance Wollongong.
2. Suburb (*State Forest name*): Tallaganda  
(*Nearest town or named locality*): Lowden Park  
(*Nearest Ambulance station*): Braidwood
3. Address: (*Nearest named State forest road*): Bombay Fire Trail.
4. Nearest Road Junction: Lowden Road
- 5 Local Government Area: Palerang.
6. Nature of the problem: Give details of accident, number and condition of casualties.
7. Where is the accident: Work site location – (Centre of Compartments).  
  
MGA Grid reference: Zone 55 E741645 N5910530.  
  
Lat/long for GPS: 35° 30' 52" S 149° 32' 41 " E.
8. Directions to navigate from Ambulance Station to meeting point:  
  
Directions from **Braidwood**:  
**West along Krawarree Road for approximately 24km, turns right into Parkers Gap road and travel 2.6 km then turn right into Harold Cross Road. Travel 9.6kms to Coxes Creek road junction, turn right and travel 6.4kms to intersection of Lowden road. Turn right into Lowden road and travel 8.5kms to the junction of Bombay Fire Trail. Wait for further instructions.**
9. Injuries?: Give detailed information about the condition of the casualty.
10. Call back No.: Give your Mobile Number.  
or Batemans Bay Office:1300 880 548.
11. Name of Reporter: Give own name.

**Site Specific Identified Hazards**

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

Identified hazards requiring risk assessment and control strategy in Safety Management Plan



IDENTIFIED HAZARD	RISK RATING	SUGGESTED CONTROL STRATEGY
1. Adjoining roads of various traffic levels	1	Warning signs at intersections, road closure and traffic control measures. 60km/hr speed limit on all State Forest gravel roads unless otherwise signposted. Compliance with Forests NSW lights on policy.
2. Overhead powerlines or cables	3-4	<b>Refer to Forests NSW safety standard 1.3.12.</b> Assess every individual tree for directional felling and degree of risk. Do not fall trees towards overhead hazard if within two tree lengths.
3. Hazardous or dead trees	1	<b>Refer to Forests NSW safety standard 1.3.9.</b> Assess area within two tree lengths of work site. Assess risk, mark any Distinctly Dangerous Trees with the symbol Ø & if necessary remove hazard or move work site. Use machinery to assist with hazard removal if possible <b>Contractor is responsible for implementing control strategies during harvesting.</b>
4. Overhead hazards associated with dumps	1	<b>Refer to Forests NSW safety standard 1.3.9.</b> Assess overhead hazard within two tree lengths of the dump. Assess risk, & if necessary remove hazard or relocate dump site. <b>Contractor is responsible for implementing control strategies during harvesting.</b>
5. Dust from passing vehicles along dirt haulage routes	2	Restrict speed to minimise dust generation, slow down when passing vehicles. Turn on driving and hazard lights to increase visibility.
6. Trucks colliding with oncoming school buses on Captains Flat Road weekdays 6.45-8.30am and 3.15-5.0 pm.	2	Use UHF channel 3 (channel used by school buses) whilst travelling along Captains Flat Road. When approaching corners communicate trucks location and/or direction of travel to alert bus drivers.

Hazard Nos. 1 and 4 are shown on the attached HPOM.

### Traffic management/road closures

The logging contractor is responsible for traffic control on all roads when felling is within two tree lengths of the tallest tree to be felled of the road or snagging on roads or loading is occurring within 10 metres of a road. Warning of trucks entering must be **displayed 200 metres either side** of all State Forest road approaches leading to areas where harvesting operations are in progress.

Warning of timber harvesting operations must be **displayed 200 metres either side** of all thoroughfare State Forest road approaches leading to areas where harvesting operations are in progress.

### Dust, noise and school bus routes

**Dust and noise** – 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.

**School bus route** – Captains Flat, Harolds Cross and Parkers Gap roads are used by school buses between the hours of 6:45am to 8:30 am and 3:15pm to 5:00pm. On weekdays, to the greatest extent practicable, log haulage should avoid school bus times on the above roads.

### Silviculture and Harvesting Prescriptions

Year	1957	1965	1973	1988	1999
TSI	X	X	X	X	X
HR Burning	X	X	X	X	√
Wildfires	√	X	X	X	X
Logging m <sup>3</sup>	0	6350	600	1180	0

√ - applies, X – not applicable

Compartment	No. of Sweeps	BA Average (m <sup>2</sup> /ha)	BA Range (m <sup>2</sup> /ha)
2422	8	47	40-58

### Silvicultural Planning

#### Single Tree Selection

The STS tract (559 ha) is a predominantly mixed aged forest and will be harvested under a heavy single tree selection (STS) regime. The objective within the 375 ha Net Harvest Area for this operation is to remove 45% of commercially mature and defective trees to create canopy openings for regeneration, whilst retaining and minimising damage to young regenerating stems, seed trees, habitat and recruitment trees.

It is envisaged that the next harvesting operation in this compartment would be on average 30 years time.

The STS tract for IFOA purposes includes Resource Units 1, 2, 3 and 4 of Compartment 2422 and Vacant Crown Lands Lots 7300 and 7301.

**Single Tree Selection (STS) must remove no more than 45% of the basal area (BA), while retaining a minimum BA of 10m<sup>2</sup> per hectare within the NHA.**

Resource Unit (Refer to HPOM for detail)	Species Composition	Stand History	Stand Structure and Condition
1	Overstorey dominated by Brown Barrel, Messmate, Mountain and Manna Gum.	Highly selective logging occurred in 1998.	Mature to overmature with scattered areas of regeneration. Regeneration and mature trees are in average-good timber condition, overmature trees are in poor condition.
2	Overstorey dominated by Brown Barrel,	No records available.	Even aged regeneration with scattered overmature remnant

Resource Unit (Refer to HPOM for detail)	Species Composition	Stand History	Stand Structure and Condition
	Messmate, Mountain and Manna Gum.		overstorey. Regeneration is in good timber condition, the overmature trees are in poor timber condition.
3 and 4	Dominated by Peppermint, Silvertop Ash, Brown Barrel and Mountain Gum.	Not applicable for FMZ 2 exclusion area.	Clumps of mature trees in a two aged forest. Overstorey stand composition reflects original canopy.
Lots 7300 and 7301	Overstorey dominated by Brown Barrel, Messmate, Mountain and Manna Gum.	No records available.	Mature to overmature with scattered areas of regeneration. Regeneration and mature trees are in average-good timber condition, overmature trees are in poor condition.

### Harvesting Prescription

Resource Unit (Refer to HPOM for detail)	% of NHA	Silvicultural Treatment
1	50%	<p>STS heavy:</p> <ul style="list-style-type: none"> <li>Retain and protect from harvesting/fire damage: <ul style="list-style-type: none"> <li>-poles/advanced growth (&lt;40cm DBHOB) with good form and vigour,</li> <li>-habitat and recruitment trees as per TSL,</li> <li>- 4 seed trees/ha (can include other suitable retained trees).</li> </ul> </li> <li>Retain additional trees of good form and vigour to ensure the total BA removal across the entire NHA is no more than 45%.</li> <li>Retained trees should be evenly spaced throughout the Resource Unit.</li> <li>Throughout the NHA, ensure the BA does not fall below 10m<sup>2</sup>/ha.</li> </ul>
2 and Vacant Crown Land	50%	<p>STS medium:</p> <ul style="list-style-type: none"> <li>Retain and protect from fire/harvesting damage: <ul style="list-style-type: none"> <li>-poles/advanced growth (&lt;40cm DBHOB) with good form and vigour,</li> <li>-habitat and recruitment trees as per TSL,</li> <li>-retain additional dominant and co dominant trees of good form and vigour to ensure the total BA removed across the Resource Unit is no more than 35%.</li> </ul> </li> <li>Retained trees should be evenly spaced throughout</li> </ul>

		<p>the resource unit.</p> <ul style="list-style-type: none"> <li>Throughout the NHA, ensure the BA does not fall below 10m<sup>2</sup>/ha.</li> </ul> <p>All other products should be removed.</p>
3 and 4	0%	Nil. Excluded area due to FMZ 2.

Note: The area of each silvicultural treatment must be mapped and recorded in the Post logging information section of this plan.

### Special Requirements

#### Non-harvest areas

The HPOM indicates the non-harvest areas in the compartment, as detailed in the legend. Harvesting disturbance is not permitted in non-harvest areas unless authorised by the Regional Manager.

#### Noxious Weeds/Disease/Pests Hygiene Requirements

There are no known noxious weeds, pathogens or diseases in the compartment. Harvesting Machinery is not required to be washed down prior to leaving the compartment.

#### Private Property and Critical Boundaries

Private property occurs adjacent to the northern, eastern and southern boundaries of the compartment, as indicated on the HPOM. Private property owners have been notified of the scheduled harvesting and post-harvest burning. Contact details are available from the Batemans Bay office. The table below lists neighbours who adjoin Compartment 2422:

Name	Lot Number
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

- No harvest disturbance is permitted on private property (except for conditions relating to permit to enter for Lot 172 mentioned below).
- Harvesting debris must not be left within five metres of the boundary fence lines.
- Any damage to fences must be repaired by the contractor.
- Access roads must be maintained free of debris and in a trafficable state.

A permit to enter had been obtained for Lot 172 to allow the upgrade and maintenance of 2422/10 Road and the construction of a truck turnaround to occur (Shown on HPOM). Trucks may use this road and turnaround to haul logs from Compartment 2422. No other harvesting disturbance is permitted on this lot.

#### Apiary

3 apiary sites provided in the table below are located within the planning unit as detailed in the table below. Contact details are available from the Batemans Bay office.

Name	Boundary Location
------	-------------------


- The Contract Coordinator must provide the apiary permittees with at least two weeks advance notice when bee boxes need to be removed or relocated.

### **Vacant Crown Land**

Vacant Crown Land joins the compartment to the north and east.

DP 1143250, part Lot 7300 and whole of 7301 are available for harvesting, haulage and Log Dump construction. Apply all conditions contained within this harvesting plan to this area except for the conditions relating to burning. This plan does not give approval to carry out hazard reduction burns in the Vacant Crown Land.

DP 1034088, Lot 7005 and part of DP1143250 Lot 7300 is a non harvest area.

### **Forest Management Zoning**

FMZ 2 Special Management, FMZ 3A Harvesting Excluded and FMZ 4- General Management (normal harvesting prescriptions apply) occur within the compartment. Refer to HPOM for more detail.

**FMZ 2 and FMZ 3A - No harvesting machinery or harvesting activities are allowed in these zones.**

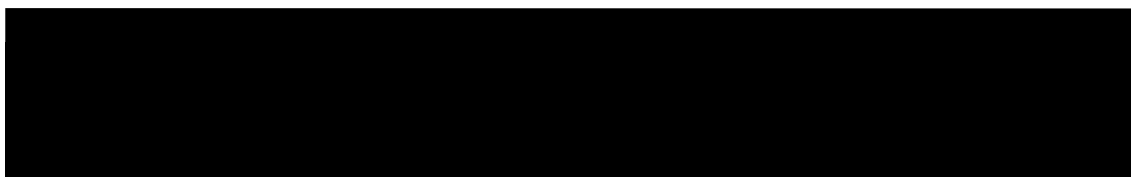
**FMZ 3A** – Prescribed burning is only permitted in these areas where fire does not conflict with underlying protection zones e.g. rainforest, cultural heritage etc. (Refer to cultural heritage flora and fauna sections of this plan and the standard harvest plan conditions for more detail).

### **IFOA Required Approval of Forestry Activities**

Approvals have not been obtained for snig track construction and/or use and log haulage in FMZ 2 and 3A. If the Contract Coordinator identifies the need for harvesting related activities to occur within FMZ 2 and 3A during the operation, the Harvest Planner must be contacted to seek Regional Manager approval.

All areas of Rainforest and Rare Non-Commercial Forest Ecosystems require prior OEH approval and Stream Exclusion Zones require prior Regional Manager approval before forest harvesting related activities (e.g. road or snig track construction & reopening) can be undertaken. It is the responsibility of the Contract Coordinator to identify any exclusion areas which will need to be crossed during harvesting. The Contract Coordinator should then contact the Harvest Planner to obtain the necessary approval.

### **Cultural Heritage**







## Flora and Fauna

### Refer to TSL Booklet for Conditions

#### Mark-Up Conditions

During the pre-harvest mark up the SFO/Contract Coordinator must search for and record threatened species habitat features consistent with Conditions 5.2 and 8.6 of the TSL. Searches for threatened species features must be conducted within that portion of the net planned area where harvesting will occur, and within 50 metres outside this area (e.g. HCVOG, etc) (conditions 5.1, 5.2 of the TSL).

Where any of these features are found, the feature must be recorded, the Harvesting Plan, including the HPOM, must be amended accordingly and the appropriate condition applied.

#### Species adequately covered by general prescriptions:

The following species have been recorded in or around the compartment and are adequately covered by the general prescriptions. No further protection measures are required for these species:

**Olive Whistler** (*Pachycephala olivacea*), **Eastern False Pipistrelle** (*Falsistrellus tasmaniensis*).

#### Tree Retention

Zone	Habitat Trees/ 2ha	Recruitment Trees/ 2ha	Protection of Retained Trees	Stag Retention (only if safe)	Significant Food Resource
<b>Non Regrowth</b>	<b>10</b>	<b>10</b>	√	√	√
<b>TSL condition</b>	5.6a	5.6b	5.6g	5.6e	5.6 f

√ - Condition applies

#### General exclusion zones

General exclusions as listed below are shown on the HPOM.

Feature/Condition	TSL cond'n	Occurs within Planning Unit
<b>Rainforest</b>	5.4	No
<b>Rare Non Commercial Forest Ecosystems</b>	5.5	Yes
<b>Riparian Protection Zones</b>	5.7	Yes
<b>Ridge &amp; Headwater Habitat</b>	5.8	Yes
<b>Wetlands</b>	5.9	Yes
<b>Heath and Scrub</b>	5.10	No

<b>Rocky Outcrops and Cliffs</b>	5.11	No
<b>Endangered Ecological Community</b>	NA	Yes - Indicatively mapped EEC (Tablelands Snow Gum, Black Sallee, Candlebark and Ribbon Gum Woodland occurs within the planning unit – see HPOM. The SFO/CC is to assess for mapped EEC areas during mark-up using the EEC Identification Guidelines attached to this plan. Contact ecologist immediately if areas of potential EEC are identified in the field so that appropriate prescriptions can be applied.

### General Threatened Flora and Fauna Prescriptions

<b>Feature</b>	<b>Records in 2422</b>	<b>Licence conditions under the TSC Act</b>
Threatened Frog General Protection Measures	No	5.12
Bird Nest and Roost Site Protection	No	5.13
Tree Bat Roost Protection	No	5.14.1
Subterranean Roost Protection	No	5.14.2
Significant Subterranean Roost Protection	No	5.14.3
Protection of flying-fox Camps	No	5.14.4
Burning	Net planned area	5.16
Ground Habitat Protection	Net planned area	5.17

### Species & Site-Specific Threatened Flora and Fauna Prescriptions

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

The following species have been recorded within or nearby the area and the associated prescriptions must be implemented:

<b>Threatened species and habitat features within trigger distance</b>	<b>Records in 2422</b>	<b>Licence conditions under the TSC Act or relevant Site-specific prescription</b>
<b>Powerful Owl</b> <i>Ninox strenua</i> <b>Barking Owl</b> <i>Ninox connivens</i>	No	6.4
<b>Spotted tailed Quoll</b> <i>Dasyurus maculatus</i>	No	6.10
<b>Gang Gang Cockatoo</b> <i>Callocephalon fimbriatum</i>	Yes	Apply Condition 5.13(a), (d) & (f) as for Glossy Black Cockatoo to this

Threatened species and habitat features within trigger distance	Records in 2422	Licence conditions under the TSC Act or relevant Site-specific prescription
		species.
<b>Varied Sittella</b> <i>Daphoenositta chrysoptera</i> <b>Scarlet Robin</b> <i>Petroica boodang</i> <b>Flame Robin</b> <i>Petroica phoenicea</i>	Yes	50m around nests and apply Condition 5.13 (d) as for Glossy Black Cockatoo to these species.
<b><i>Dilwynia glaucula</i></b>	No	6.16.2

#### Fisheries Licence Conditions

There are no known records of threatened fish species or class 1 or 2 aquatic habitat relevant to this operation. The conditions of the fisheries licence are not triggered for this operation.

#### Soils and Water Protection

Refer to EPL Booklet & Standard Plan Conditions

#### Site-specific EPL Conditions

Elements	Conditions
Unmapped Drainage Lines	EPL does not apply: refer to drainage feature protection below.
Drainage Feature Protection	See HPOM for widths
Inherent Hazard Class	1
Dispersible Soils	No
Seasonality Harvesting Exclusions	No
Seasonality Burning Exclusions	No
Log Dumps	Refer relevant conditions for IHL
Snig Tracks	Refer relevant conditions for IHL
Roads	See Schedule 5 of EPL Booklet
Slope limits for harvesting	Refer to Schedule 4B.3 of EPL

#### Drainage Feature Protection

Filter strips (EPL), Protection Zones (EPL), Operational Zones (EPL), Protection Zones -hard (TSL) and Protection Zones -soft (TSL) must be retained along all drainage lines, prescribed streams and watercourses within the net planned area of the compartment at minimum widths as stated in the Table below.

**NOTE:** # In the event that Forests NSW chooses to harvest this area without EPL coverage, all EPL conditions continue to apply **except** for the rule applying to the cutting of trees from within the protection zone (soft) of the **unmapped drainage lines**. In this case, trees within protection zones of unmapped drainage lines may be felled and removed.

Stream Order	EPL Filter Strip TSL Protection (hard)	EPL Protection Zone TSL Protection* (soft)	EPL Operational Zone
Unmapped	N/A#	N/A#	N/A#
1st order	5	5*	10
2nd order	5	15*	10
3 <sup>rd</sup> order	5	25*	10
4 <sup>th</sup> order or greater	5	45*	10

**Note:** \*TSL Protection zones (hard & soft) are contained within the EPL Filter strip, which have the greater level of protection.

# for this operation Forests NSW has chosen to harvest this area without EPL coverage. All EPL conditions continue to apply **except** for the rules applying to filter strips, protection zones and operational zones of the **unmapped drainage lines**. Refer to Best Management Practices for unmapped drainage lines in the standard conditions. Harvesting of unmapped drainage lines, **MUST NOT** occur in unmapped drainage lines which are running or holding water. It is the responsibility of the Contract Coordinator to inspect each unmapped drainage line prior to harvesting it, to determine if it is running or holding water.

### Log Dump Location

21 log dumps are indicated on the HPOM. Field location of log dumps must utilise the most level site available consistent with the location indicated on the HPOM. Inherent hazard level 1 Conditions 26, 27, 30, and 33 of Schedule 4 of the EPL must apply.

### Expected Felling/ Extraction & Loading Method

The expected felling method is mechanical, extraction method by skidder, and loading method is by excavator.

### Drainage Feature Crossings

One snig track drainage line crossings (S1) is approved for use on drainage features. (Refer to HPOM).

### Mass Movement

Compartment 2422 is not in an area identified as having a potential for mass movement. No specific prescriptions relating to mass movement/snigging are required.

### Suitability of existing log dams and gully stuffers

There are no known log dams or gully stuffers on snig track crossings in the compartments.

Condition 47 of Schedule 4 of the EPL must apply.

### Road Works

The HPOM indicates the location of existing roads and crossings.

Feature	Length &/or Number	Work Required
Existing Roads	9,415m	Yes
New Roads	1,020m	Yes
Existing Crossings	7	Yes
New Crossing	7	Yes
Borrow & Gravel Pits	0	No

**Roading and Crossing details are contained within Attachment 2 of this Plan.**

**The roading and crossing works must be undertaken, by contractor or Forests NSW staff, prior to the commencement of harvesting activity in the area served by the road or crossing.** Forests NSW will supervise and pay for the maintenance works.

Within the compartment boundary and Lots 7301 and 172 only roads that are shown on the HPOM as EPL standard or sealed may be used for haulage. **Refer to EPL Schedule 5 – Operating Conditions for Roads.**

Roads within the compartment boundary may be used with Contract Coordinator approval for snagging or extraction provided they are drained to EPL specifications.

#### Legal Conditions

In 2001, the Commonwealth and NSW Governments signed a Southern Regional Forest Agreement which, among other things, allows for the supply of timber for 20 years from public lands under the following NSW legislation:

- Forestry Act 1916, and
- Forestry & National Park Estate Act 1998

The latter Act provides for the Southern Forest Agreement and Southern Integrated Forest Operations Approval (IFOA), both approved by NSW Government Ministers in May 2002. This harvest plan is issued under the authority provided within the IFOA.

The IFOA also contains three licences issued under:

- Section 55 of the Protection of the Environment Act 1997 (EPL)
- Threatened Species Conservation Act 1995 (TSL).
- Section 220ZW of the Fisheries Management Act 1994 (FL).

This harvest plan will be managed in the field under:

- Licences issued under the Forestry Act (1916)
- Forest Practices Code part 2 (Timber Harvesting in Native Forests - 1999) and part 4 (Forest Roads and Fire Trails - 1999)
- Standard Harvest Plan Conditions for Native Forest Operations Under the IFOA, Southern Region-South Coast Area.

Harvesting operations must comply with all of the above Licences and the Code (unless otherwise specified).

Further information is available from <http://www.environment.nsw.gov.au/>



**Pre-Operational Briefing**

I acknowledge that I have received a copy of the Harvesting Plan for Compartment 2422 in Tallaganda 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 Harvesting Team Leader or his/her delegate.

Position	Name	Signature	Date

**Details to Record in Contract Coordinator/SFO Notes**

- Dates of commencement and cessation of logging
- Record the commencement and completion of harvesting at each dump
- Record the occurrence of temporary stopping of harvesting at each dump.
- Situations where drainage could not be completed due to saturated soils must be recorded in Contract Coordinator/SFO Notes.
- Record the commencement and completion of each construction, upgrading or maintenance of drainage feature crossings by snig tracks or extraction tracks.
- Bi-weekly checks of road drainage structures during haulage operations.
- Record the date of checks, drainage structure compliance and the any repairs required within the specified time period.
- Records of Threatened Flora and Fauna identified during compartment markup.
- Minor variations associated with moving or adding dumps.
- Daily events of importance e.g. Instructions to crew, work activity.

**Post Harvest Mapping Features Confirmation Checklist**

Feature	Planning Updates	Reason (Error/New)	GIS update tool completed?	Harvesting Updates	Comments
Soil Regolith	No				
Mapped Drainage	No				
Rainforest	No				
Rocky outcrops	No				
Wetlands	No				
Cultural Heritage	No				
Existing Roads	Yes	Error	Yes		
New Roads	Yes	New	Yes		2422/8 2422/9
Heath	No				
Powerlines etc	No				



## Contract Coordinator/SFO Notes

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Contract Coordinator/SFO Notes (continued)	
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**Contract Coordinator/SFO Notes (continued)**

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Contract Coordinator/SFO Notes (continued)

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**Clearance Certificate**

**COMPARTMENT: 2422, TALLAGANDA STATE FOREST, SOUTHERN REGION**

To .....Contract Coordinator

I request approval for me to move my logging crew and all associated machinery from the above-mentioned area to the next compartment in accordance with Section 3.5 of the Forest Practices Code.

I certify that:

- (a) all permanent roads, trails and mitre drains have been cleared of harvesting debris;
- (b) butt damage to retained trees has been kept to acceptable limits;
- (c) all trees marked for removal have been felled;
- (d) utilisation limits have been satisfactorily met;
- (e) stump heights conform to requirements;
- (f) all hanging trees have been felled and brought down;
- (g) all log dumpsites have been satisfactorily restored as required;
- (h) harvesting debris is not accumulated around retained trees;
- (i) all accumulated litter has been disposed of properly;
- (j) all filter and buffer strip requirements have been complied with;
- (k) all snig track, extraction track and temporary logging road drainage has been installed satisfactorily and other required rehabilitation work has been completed;
- (l) all necessary repairs to damaged roads, signs, fences and other structures have been carried out.
- (m) \_\_\_\_\_ **(insert quantity) rubber flaps have been recovered in a satisfactory condition and reported to Operations Branch for collection.**
- (n) all machinery, equipment and vehicles have been checked and are free of noxious weeds, diseases and pests.

I believe that I have met all my obligations under the conditions of the Timber Licence, the EPL and TSL which apply to the compartment just completed, as stated in this Harvesting Plan.

Signature.....Name.....Date .....  
Contractor

As a result of inspections of the logging operations made in accordance with this Harvesting Plan, I am satisfied that, to the best of my knowledge, the contractor responsible for this harvesting operation has satisfactorily completed all work and approval is given for her/him to remove her/his machinery and equipment and leave the area/commence operations in another compartment.

This clearance does not release the contractor from any obligation to undertake any remedial work if subsequent deficiencies are shown to result from inadequate practices during the harvesting operation, which are found during any inspections of the area made within 12 months of the date of this post-harvesting inspection.

Last inspection was made on .....(Date)

Signed .....(Date).....

**Contract Coordinator**

**Post Logging Information**

Record any circumstances of significance relating to the harvesting of this compartment. Please draw or include any annotations on the attached operation scale map.

**Summary of silvicultural treatment**

Treatment type	Area (ha) subject to treatment (Contract Coordinator estimate)	Number of AGS gaps created	Comments
Australian Group Selection			
Single Tree Selection			
Thinning/Spacing			
Post Harvest Silviculture			

**Actual area harvested (record on attached HPOM)**

Give reasons for harvestable areas that were not harvested (e.g. Too steep, defective timber). Make reference to map.

**Post Logging Basal Area sweeps**

Dump No#	Sweep 1	Sweep 2	Sweep 3	Sweep 4	Average
				Post BA	Average
				Pre BA	Average
					m <sup>2</sup> /ha
					47m <sup>2</sup> /ha

Comply with maximum STS BA removal of 45% or Thinning BA removal of 60% Y/N

**Possible next cut (tick appropriate boxes)**

Main product type	Anticipated volume		
	H	M	L
Girders			
Veneer			
Poles/piles			
Quota			
Smalls/Thinnings			
Salvage			
Pulpwood/chipwood			

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

<b>ATTACHMENT 2</b>	<b>ROADING PLAN</b>
---------------------	---------------------

**Summary of Roading Requirements**

Length of existing roads/trails to be maintained	9,415m
Length of new roads to be constructed	1,020m
Number of existing crossings to be maintained	7
Number of new crossings to be constructed	6
Length of road >10°	50m
Mass movement prescriptions apply	No
Dispersible soil conditions apply	No
Seasonality provisions apply	No

**Note:** Maintenance works not completed by Operations must be recorded and passed onto the Contract Coordinator Harvesting for completion and documentation.

The start and finish dates of all maintenance and construction must be recorded on the individual roading sheets 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.

<b>CHECKLIST OF WORKS REQUIRED ON ROADS &amp; CROSSINGS</b>
---

Road/Crossing Name	Works Required	Date Started	Date finished	Signature
Bombay Fire Trail	Minor road side clearing, install drainage as per EPL. <b>Ops/Contractor Coordinator Comments:</b>			
2422/1	Clear fallen debris, grade pavement, realign & widen. Install road drainage as per EPL. <b>Ops/Contract Coordinator Comments:</b>			
2422/2	Reopen, realign & widen. Install road drainage as per EPL . <b>Ops/Contract Coordinator Comments:</b>			
2422/3	Reopen, realign & widen. Install road drainage as per EPL .			

	<b>Ops/Contract Coordinator Comments:</b>			
2422/4	Reopen, realign & widen. Install road drainage as per EPL . <b>Ops/Contract Coordinator Comments:</b>			
2422/5	Reopen, realign & widen. Install road drainage as per EPL . <b>Ops/Contract Coordinator Comments:</b>			
2422/6	Reopen, realign & widen. Install road drainage as per EPL. <b>Ops/Contract Coordinator Comments:</b>			
2422/7	Reopen, realign & widen. Install road drainage. <b>Ops/Contract Coordinator Comments:</b>			
2422/8	Install new road. <b>Drain to EPL standards.</b> <b>Ops/Contract Coordinator Comments:</b>			
2422/9	Install new road. <b>Drain to EPL standards.</b>			

2422/10	<p>This road is on Private Property. Reopen, realign &amp; widen. Install turnaround at end of road.</p> <p><b>Drain to EPL standards.</b> <b>Ops/Contract Coordinator</b></p>			
A	<p>Install approach drainage</p> <p><b>Ops/Contract Coordinator</b></p>			
B	<p>Install approach drainage</p> <p><b>Ops/Contract Coordinator</b></p>			
C	<p>Install approach drainage</p> <p><b>Ops/Contract Coordinator</b></p>			
D	<p>Install approach drainage</p> <p><b>Ops/Contract Coordinator</b></p>			
E	<p>Install approach drainage</p> <p><b>Ops/Contract Coordinator</b></p>			
F	<p>Install approach drainage</p> <p><b>Ops/Contract Coordinator</b></p>			
G	<p>Remove gully stuffer &amp; install pipe, approach drains</p>			

	<b>Ops/Contract Coordinator</b>			
H	Remove gully stuffer & construct bridge, approach drains <b>Ops/Contract Coordinator</b>			
I	Remove gully stuffer & install pipe, approach drains <b>Ops/Contract Coordinator</b>			
J	Remove gully stuffer & install pipe, approach drains <b>Ops/Contract Coordinator</b>			
K	Remove gully stuffer & install pipe, approach drains <b>Ops/Contract Coordinator</b>			
L	Install approach drainage. <b>Ops/Contract Coordinator</b>			
M	Remove gully stuffer & install pipe, approach drains <b>Ops/Contract Coordinator</b>			
S1	Install new snig track crossing as per 'S1' plan attached.			



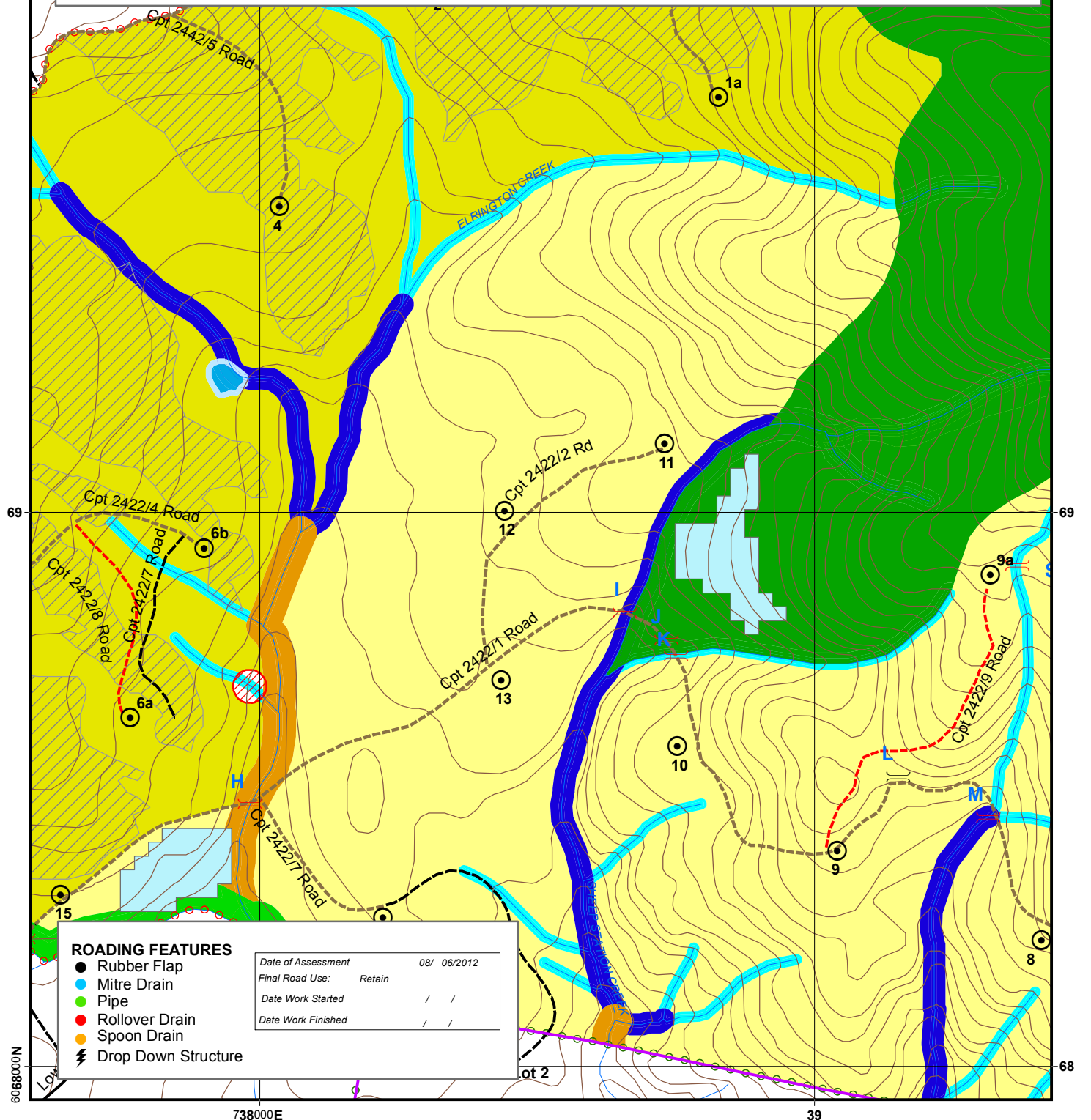
	Ops/Contract Coordinator			
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**Note:** Maintenance works not completed by Operations must be recorded and passed on to the Contract Coordinator.

Existing Road Description		
Road Name: Cpt 2422 Roads		Assessors Name: Darryl Chaffey
Features	Works (extensive roadworks have already been completed) Cpt 2422/1 = 100m, 2422/4 = 200m, 2422/9 = 650m 2422/10 = 200m	Plant/Material
Pavement	Install new road. Reopen existing roads. Clear fallen debris, ensure windrows are open. Grade pavement where required.	Dozer: 20 hours
Roadside Clearing	3 metres either side where required.	
Gravelling	As required.	
Drainage	Drain to EPL standards. As required, install rubberflaps amd mitre drains. Maintain existing mitres - ensure clear & working.	Rubberflaps x as required lab 4 hrs, machine 4 hrs
Erosion control	As required and to EPL standards. Natural vegetation, slash, seed/mulch	Dropdown x as required

**Assessors Name: Darryl Chaffey**

Features	Works (extensive roadworks have already been completed) Cpt 2422/1 = 100m, 2422/4 = 200m, 2422/9 = 650m 2422/10 = 200m	Plant/Material
Pavement	Install new road. Reopen existing roads. Clear fallen debris, ensure windrows are open. <u>Grade pavement where required.</u>	Dozer: 20 hours
Roadside Clearing	3 metres either side where required.	
Gravelling	As required.	
Drainage	Drain to EPL standards. As required, install rubberflaps amd mitre drains. Maintain existing mitres - ensure clear & working.	Rubberflaps x as required lab 4 hrs, machine 4 hrs
Erosion control	As required and to EPL standards. Natural vegetation, slash, seed/mulch	Dropdown x as required

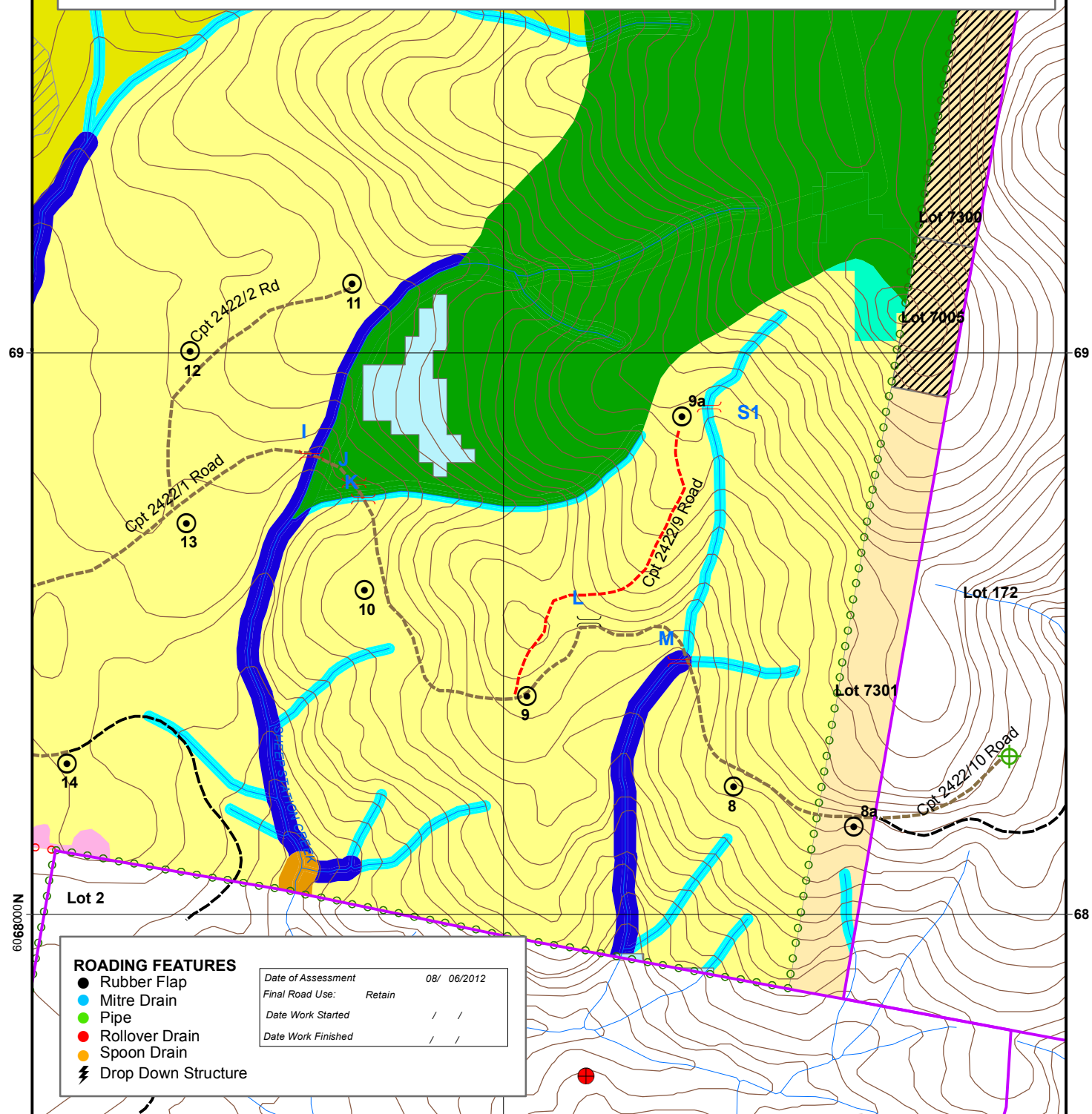


## Existing Road Description

Road Name: Cpt 2422 Roads

Assessors Name: Darryl Chaffey

Features	Works (extensive roadworks have already been completed)	Plant/Material
Pavement	Cpt 2422/1 = 100m, 2422/4 = 200m, 2422/9 = 650m 2422/10 = 200m Install new road. Reopen existing roads. Clear fallen debris, ensure windrows are open. Grade pavement where required.	Dozer: 20 hours
Roadside Clearing	3 metres either side where required.	
Gravelling	As required.	
Drainage	Drain to EPL standards. As required, install rubberflaps amd mitre drains. Maintain existing mitres - ensure clear & working.	Rubberflaps x as required lab 4 hrs, machine 4 hrs
Erosion control	As required and to EPL standards. Natural vegetation, slash, seed/mulch	Dropdown x as required



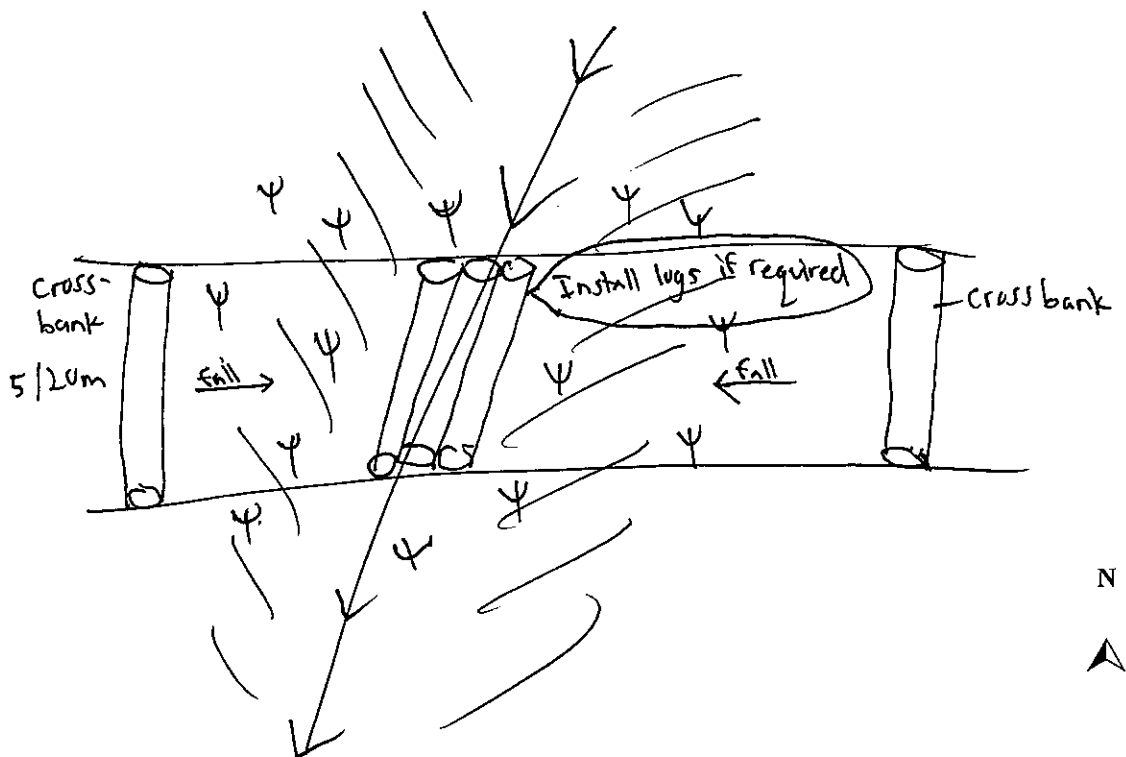
**CROSSING NAME: S1**

Waterway Classification: Fish Passage Class 4- Unlikely fish habitat

**Assessors Name:** Darryl Chaffey **Crossing Type:** Temporary Snig Track Causeway

Features	Works (As per EPL Schedule 5)	Plant/Materials
Structure	Install temporary snig track crossing.	Skidder/dozer
Bed and Banks	Cut back approaches for entry, minimize disturbance to bed.	
Erosion and Sediment Control	Seed and mulch as required. If required, armour bed with logs, and install silt trapping devices. Remove logs after use.	Seed and mulch. Logs. Mesh and pegs.
Disposal of excess spoil	Outside filter strip (as per EPL).	
Soil Stabilisation within 20m	Seed and mulch disturbed areas	Seed and mulch
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Open windrows. Install Crossbanks as per 5/20m when crossing closed.  Natural vegetation and slash.  Natural vegetation and slash.	

Date of Assessment: 08.06.2012



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

**Key**

→Ru	Rubber strip
→M	Mitre drain
xxx	Roadside clearing
→Ro	Rollover drain
ψ	Sill Log
ooooo	Rock
ψ	Seeding
∇	Silt trapping
::	Gravel

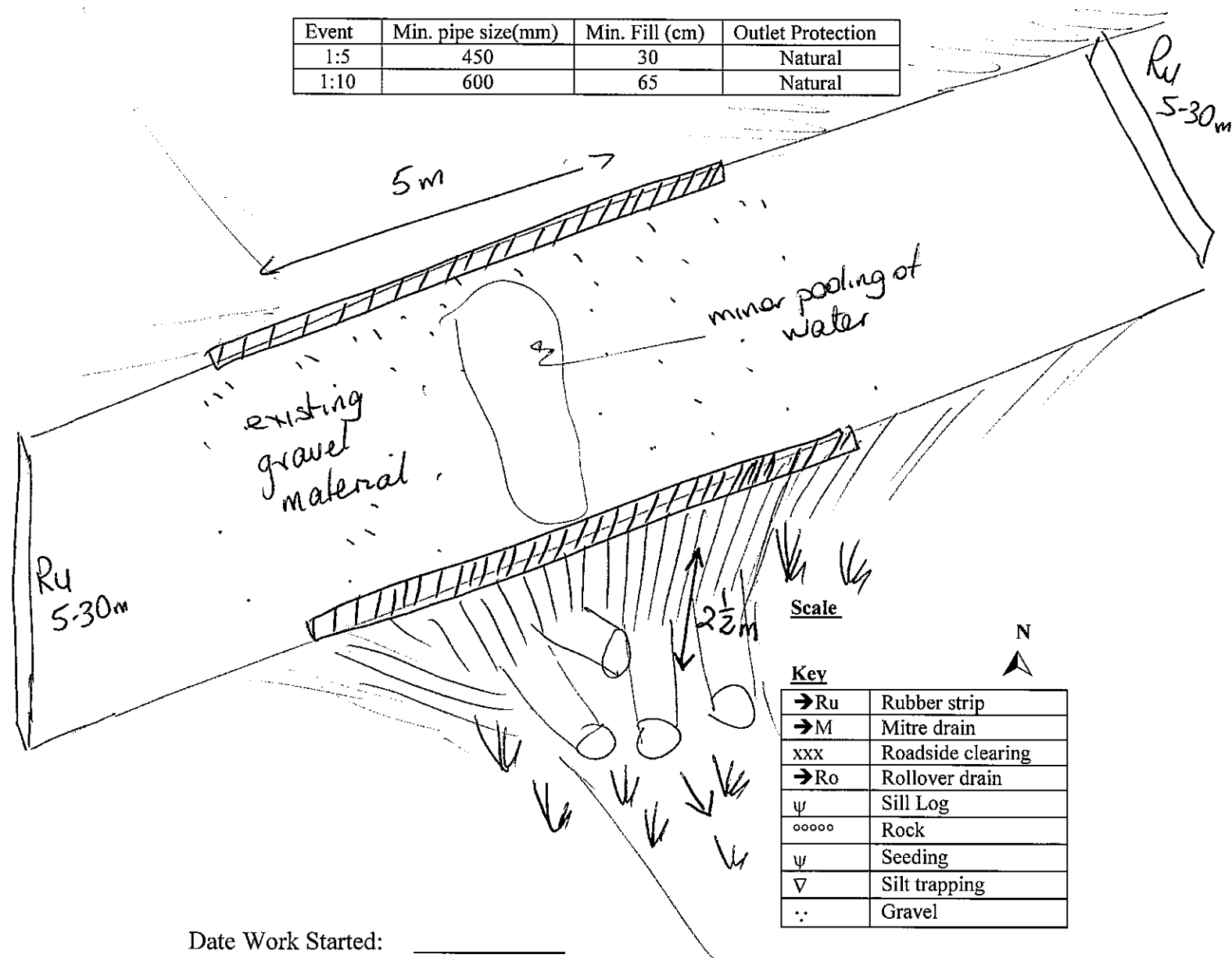
**CROSSING NAME:** A **Assessors Name:** K Petty **Crossing Type:** Log/Earth Gully Stuffer

Features	Works (As per EPL Schedule 5)	Plant/Materials
Structure	Additional gravel on surface to prevent pooling of water may be required.	Gravel.
Bed and Banks	Nil – vegetated & stable	
Erosion and Sediment Control	Nil – vegetated & stable	
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Nil – vegetated & stable	
Road drainage within 5-30m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flap x 2 Re-erect & new silt fence Leave undisturbed	Rubber flaps Silt fence/labour

Date of Assessment: 16 / 7 / 08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	30	Natural
1:10	600	65	Natural



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

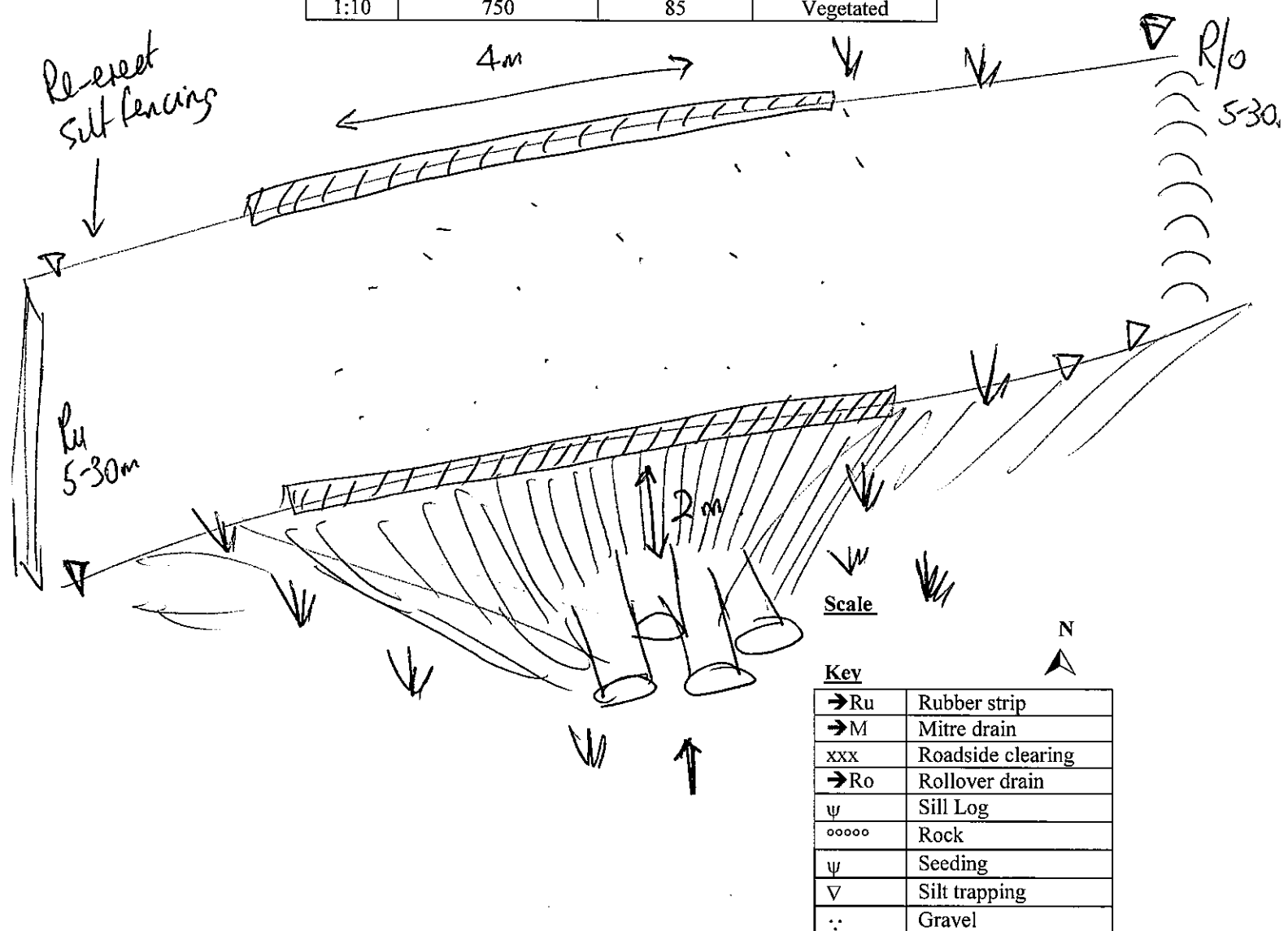
**CROSSING NAME:** B **Assessors Name:** K Petty **Crossing Type:** Log/Earth Gully Stuffer

Features	Works (As per EPL Schedule 5)	Plant/Materials
Structure	Nil -stable	
Bed and Banks	Nil -vegetated & stable	
Erosion and Sediment Control	Natural vegetation	
Disposal of excess spoil	N/A	
Soil Stabilisation within 20m	Existing vegetation	Seed/mulch
Road drainage within 5-30m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	2 x rubber flaps (rollover) Re-erect silt trapping devices Leave undisturbed 5-30m	Rubber flaps Silt trapping

Date of Assessment: 16/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	40	Vegetated
1:10	750	85	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

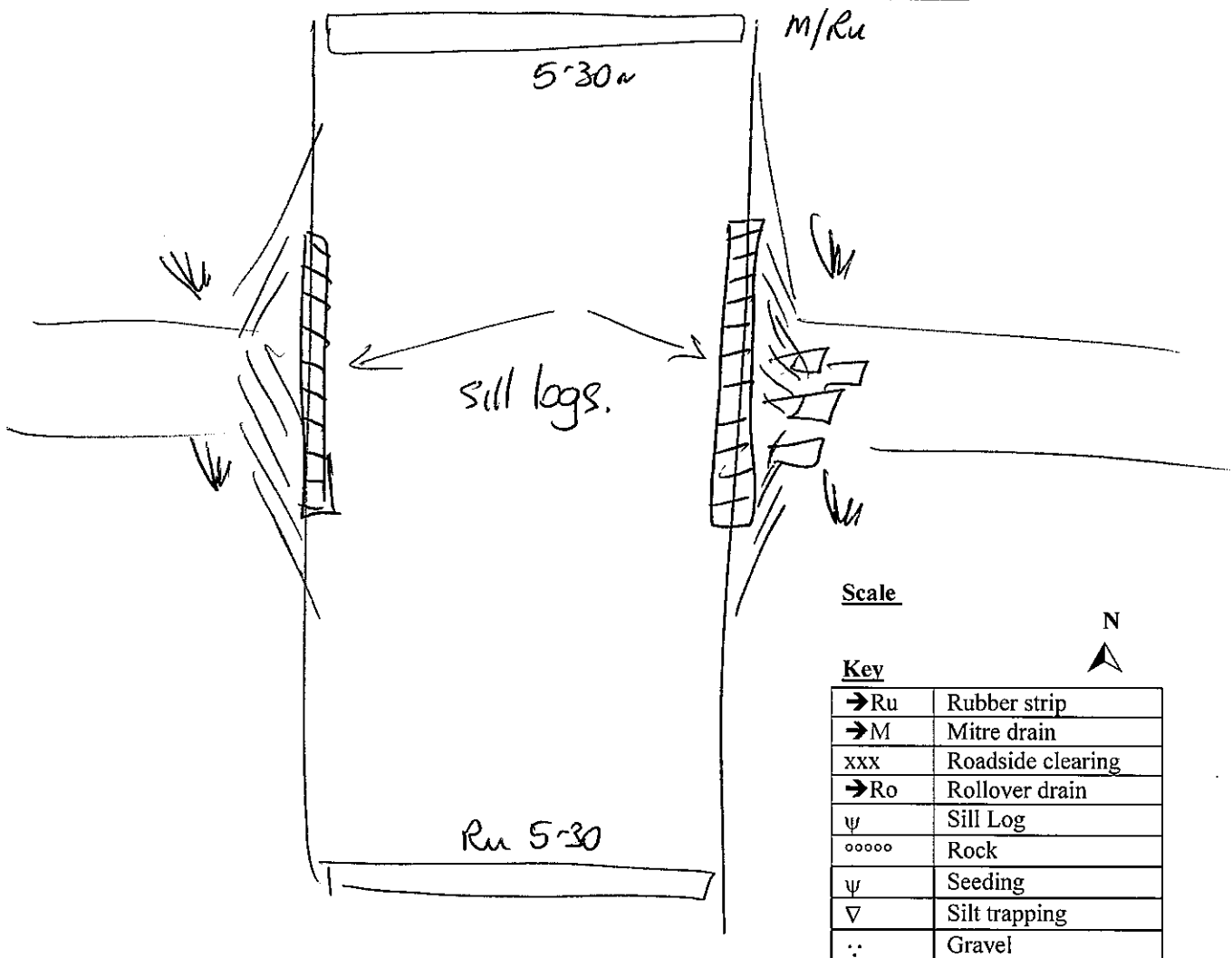
**CROSSING NAME:** C **Assessors Name:** K Petty **Crossing Type:** Log/Earth Gully Stuffer

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Stable, may need to replace sill logs as they are rotting.	Sill logs/machine
Bed and Banks	Nil – vegetated & stable	
Erosion and Sediment Control	Vegetated & stable	
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Vegetated and stable	
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flaps/mitres Natural veg/slash/silt trapping devices Leave undisturbed 5-20m	Rubber flaps

Date of Assessment: 16/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	25	Vegetated
1:10	600	35	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

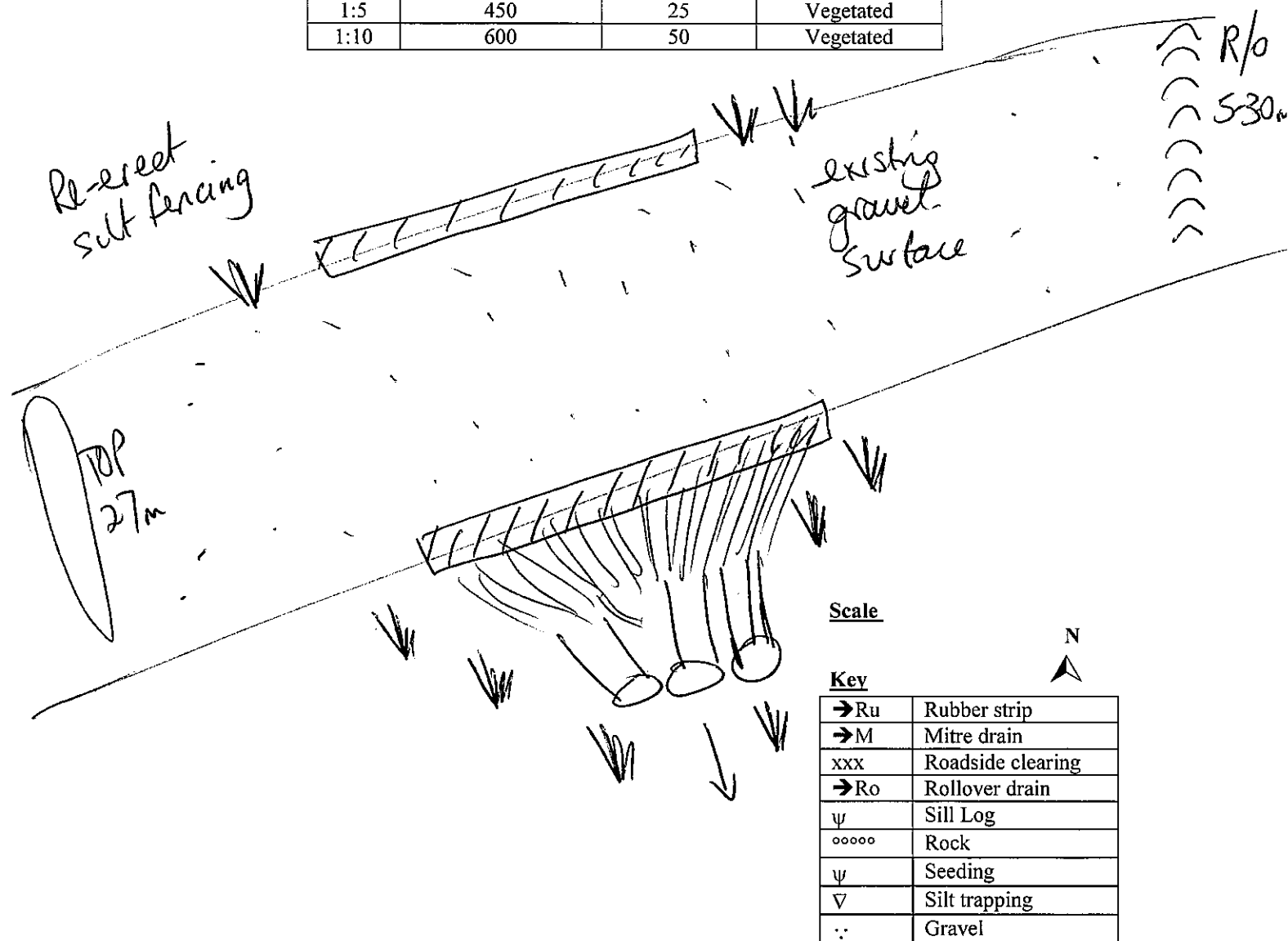
**CROSSING NAME:** D **Assessors Name:** K Petty **Crossing Type:** Log/Earth Gully Stuffer

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Stable.	
Bed and Banks	Nil – vegetated & stable	
Erosion and Sediment Control	Vegetated & stable	
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Vegetated and stable	
Road drainage within 5-20m		
• Type	Rollover/mitres	
• outlet control	Re-erect silt trapping devices	
• table drain checking devices	Leave undisturbed 5-20m	

Date of Assessment: 16/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	25	Vegetated
1:10	600	50	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_



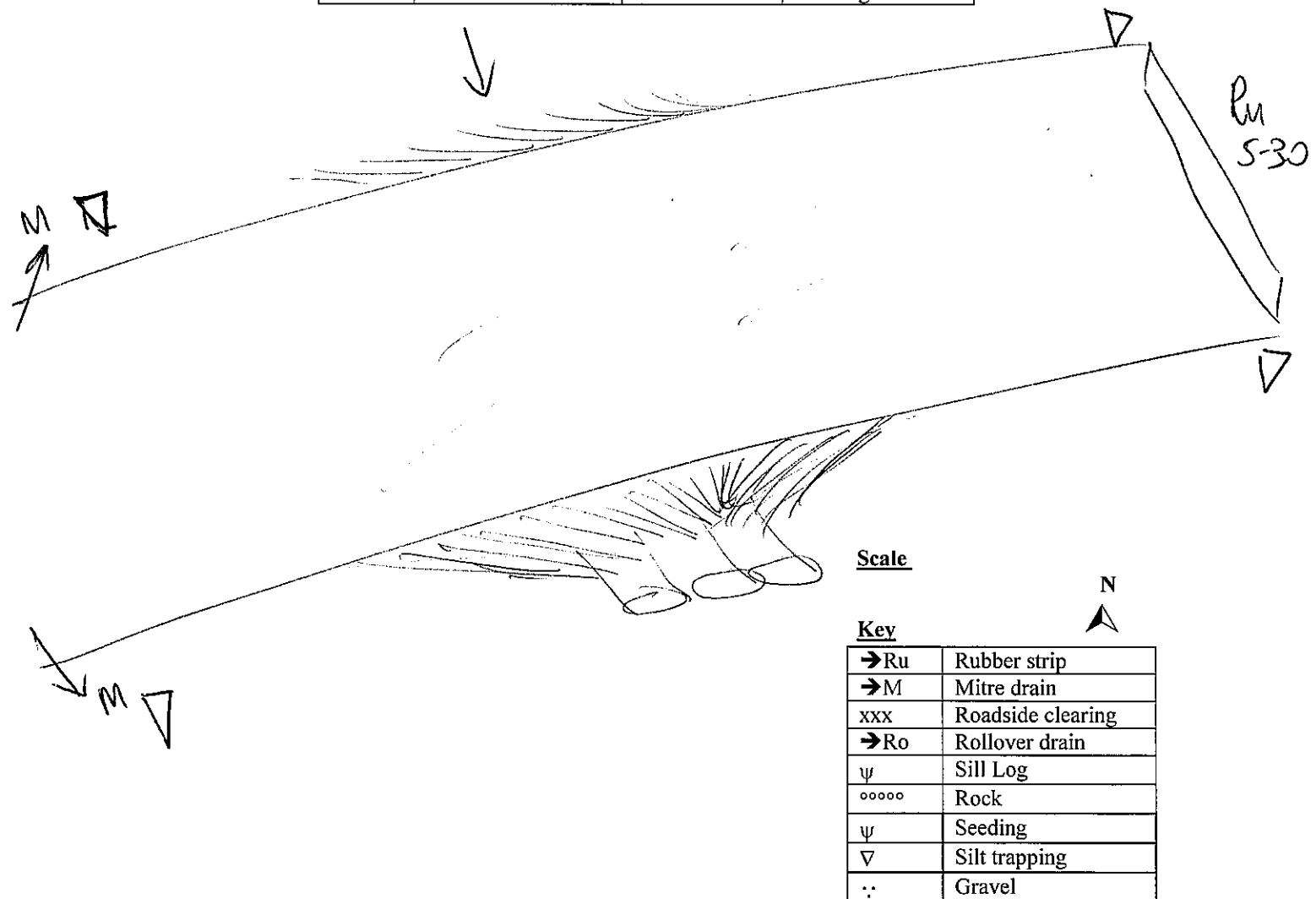
**CROSSING NAME:** E **Assessors Name:** K Petty **Crossing Type:** Log/Earth Gully Stuffer

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Stable, may need to replace sill logs as they are rotting.	Sill logs/machine
Bed and Banks	Nil – vegetated & stable	
Erosion and Sediment Control	Vegetated & stable	
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Vegetated and stable	
Road drainage within 5-20m	Rubber flap/mitres Natural veg/slash/silt trapping devices Leave undisturbed 5-20m	Rubber flap

Date of Assessment: 16/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	<300	20	Vegetated
1:10	450	20	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

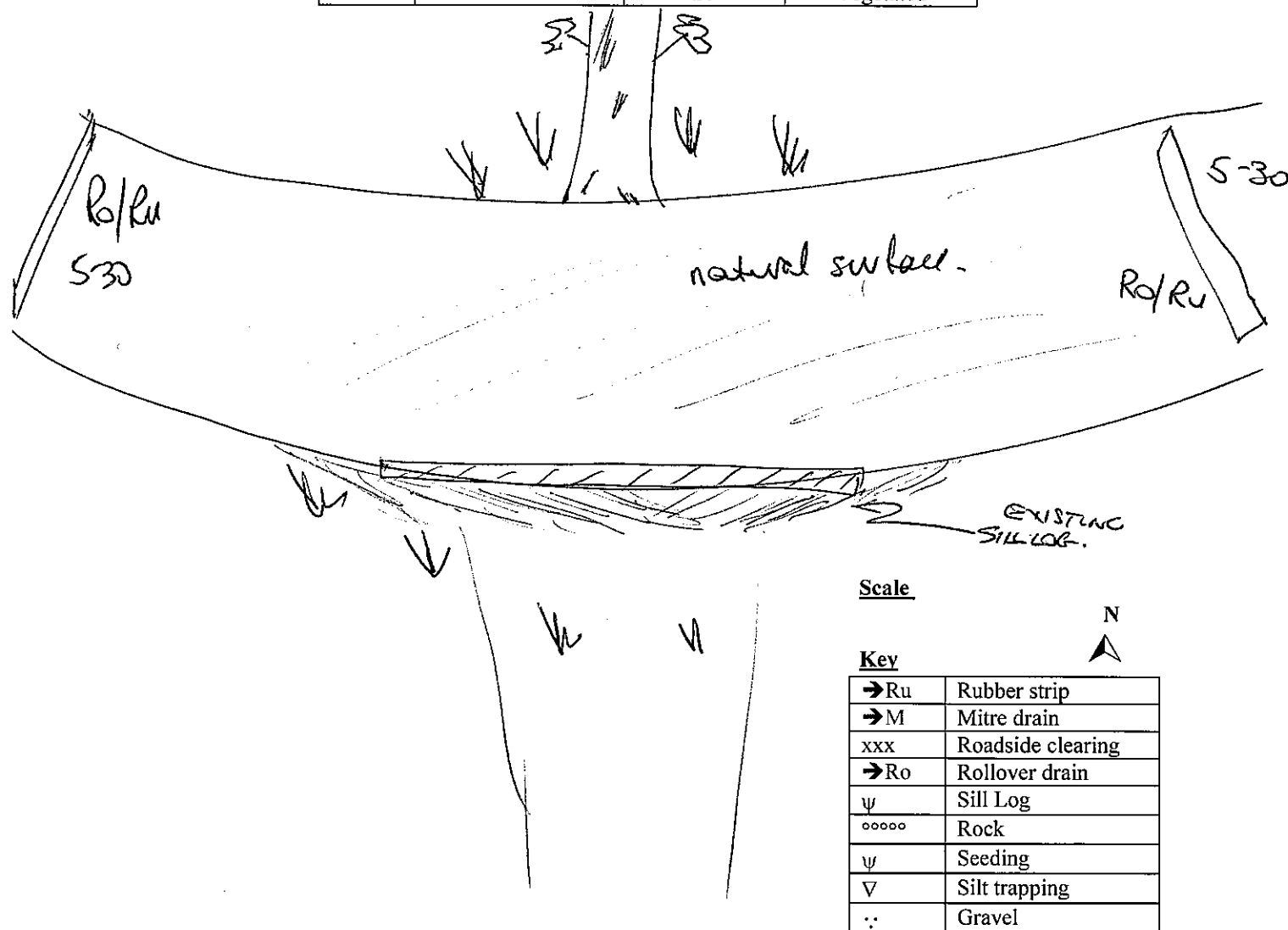
**CROSSING NAME:** F **Assessors Name:** K Petty **Crossing Type:** Earth Causeway

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Stable.	
Bed and Banks	Nil – vegetated & stable	
Erosion and Sediment Control	Vegetated & stable	
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Vegetated and stable	
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flaps/mitres Natural veg/slash Leave undisturbed 5-20m	Rubber flaps

Date of Assessment: 16/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	<300	20	Vegetated
1:10	<300	20	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

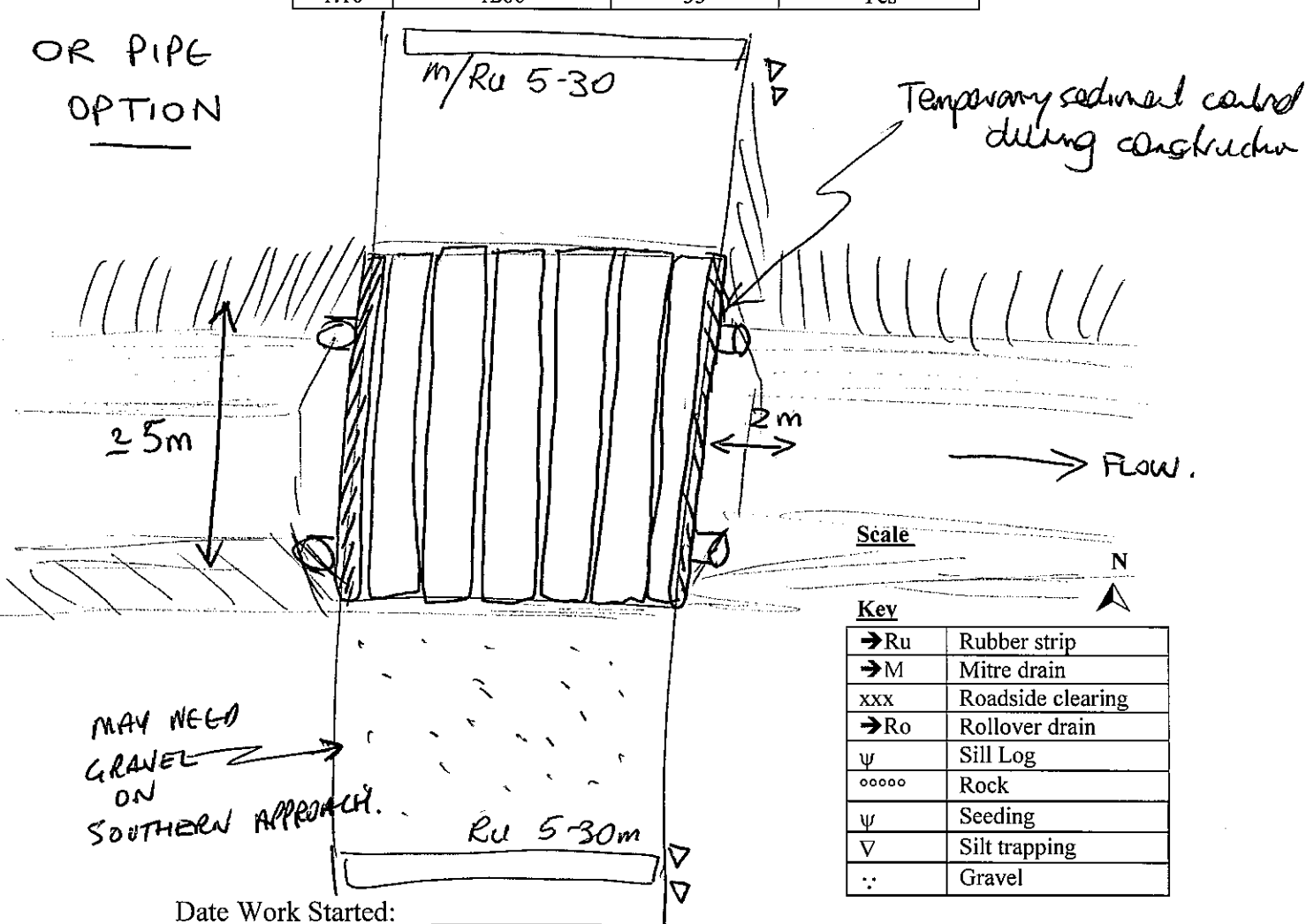
**CROSSING NAME:** G **Assessors Name:** K Petty **Crossing Type:** Upgrade to Log Bridge

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Remove logs and earth fill, replace with log bridge.	Machine/Labour/Logs
Bed and Banks	Reshape, stabilise	
Erosion and Sediment Control	Temporary sediment control while constructing. Seed/mulch/retaining features to contain fill.	Silt fencing devices, seed/mulch.
Disposal of excess spoil	Outside protection zones	
Soil Stabilisation within 20m	Seed/mulch disturbed areas, natural regeneration, artificial cover.	Seed/mulch.
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flaps/mitres Natural veg/slash/silt trapping devices Silt fencing devices 5-20m	Rubber flaps

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	600	35	Yes
1:10	1200	35	Yes

OR PIPE  
OPTION

Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

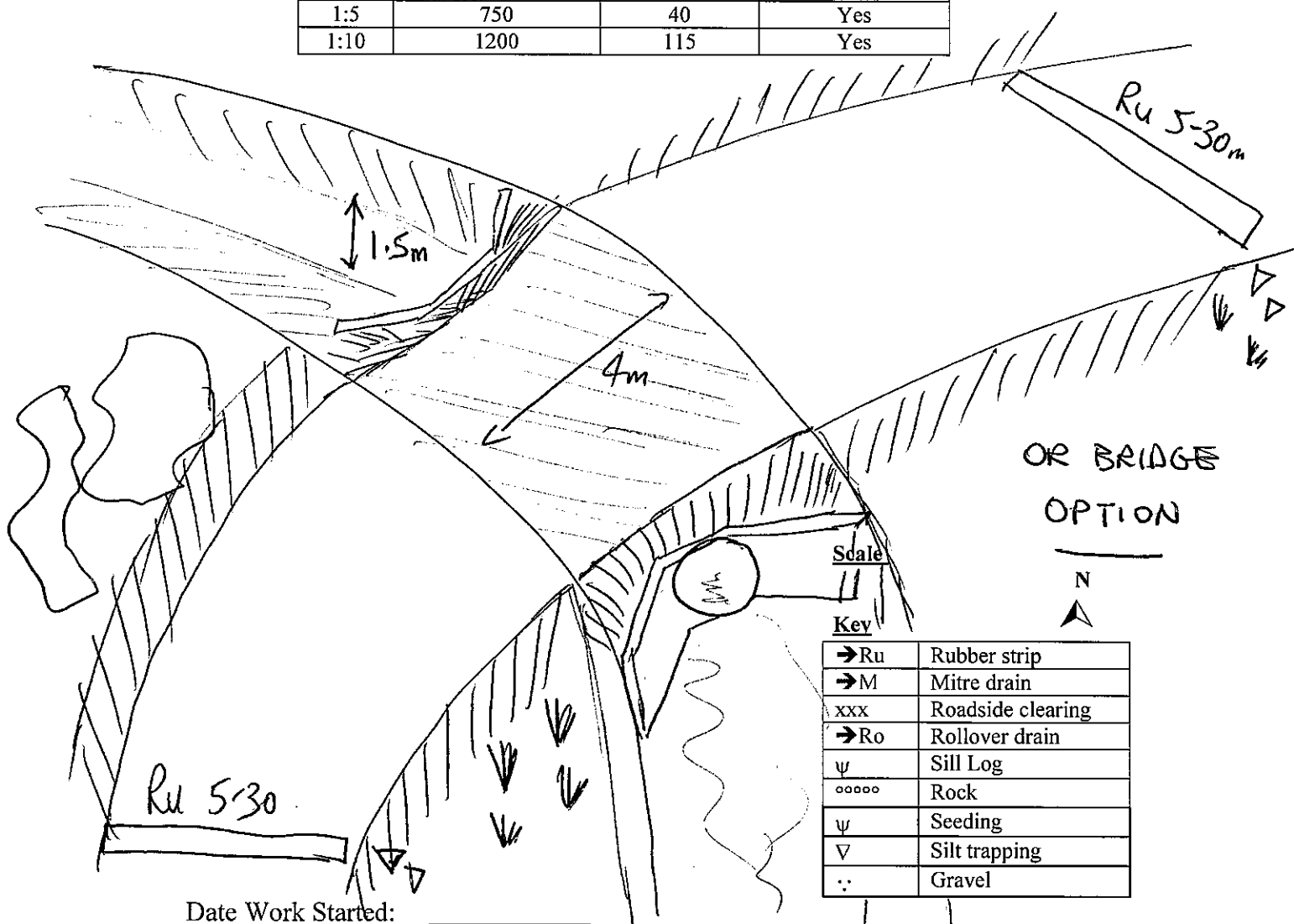
**CROSSING NAME:** H **Assessors Name:** K Petty **Crossing Type:** Upgrade to Pipes

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Remove log & earth gully stuffer. Install pipes or equivalent	Sill logs/machine
Bed and Banks	Reshape & stabilise	
Erosion and Sediment Control	Seed/mulch, temporary control while constructing.	Seed/mulch/silt fencing.
Disposal of excess spoil	Outside protection zones, spread.	
Soil Stabilisation within 20m	Seed/mulch disturbed areas, natural vegetation where possible.	Seed/mulch
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flaps Natural veg/slash/silt trapping devices Silt fencing 5-20m	Rubber flaps

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	750	40	Yes
1:10	1200	115	Yes



Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

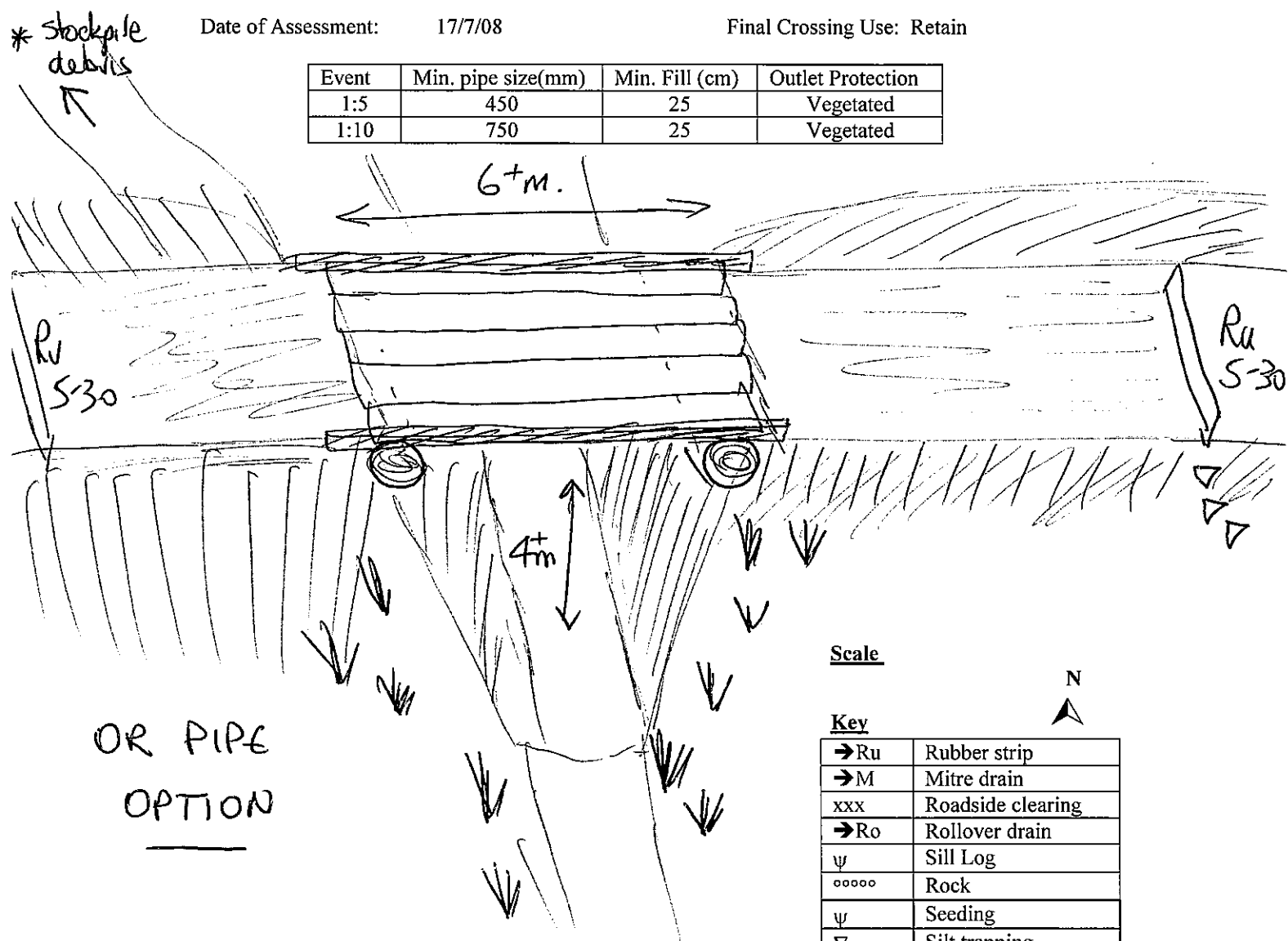
**CROSSING NAME:** I **Assessors Name:** K Petty **Crossing Type:** Upgrade to Log Bridge

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Remove old logs & earth fill. Build new log bridge.	Logs/machine/labour
Bed and Banks	Reshape, stabilize, temporary sediment control while constructing.	Sediment control devices.
Erosion and Sediment Control	Seed/mulch/silt fencing devices	Seed/mulch/silt fencing
Disposal of excess spoil	Outside protection zones	
Soil Stabilisation within 20m	Seed/mulch/compact approaches	
Road drainage within 5-20m		
<ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flaps Natural veg/slash/silt trapping devices Silt fencing 5-20m	Rubber flaps

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	25	Vegetated
1:10	750	25	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

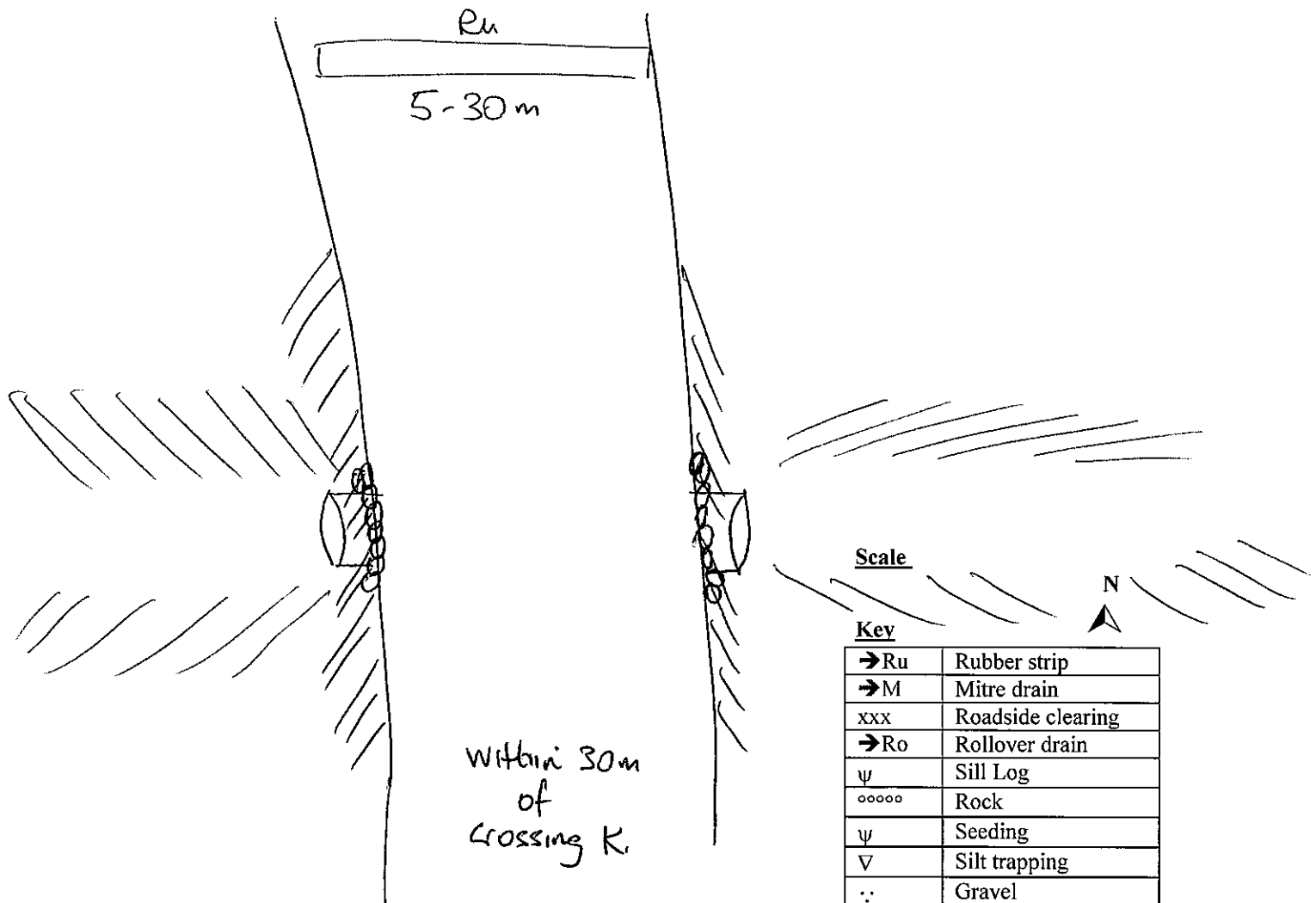
**CROSSING NAME:** J **Assessors Name:** K Petty **Crossing Type:** Upgrade to Pipe

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Remove log/fill, replace with pipe.	Machine/labour/pipe
Bed and Banks	Reshape.	
Erosion and Sediment Control	Temporary protection while constructing, silt fencing.	Silt fencing
Disposal of excess spoil	Outside feature width	
Soil Stabilisation within 20m	Seed/mulch, compact surface	
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flap/mitres Natural veg/slash/silt trapping devices Silt fencing 5-20m	Rubber flap

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	<300	20	Vegetated
1:10	<300	20	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

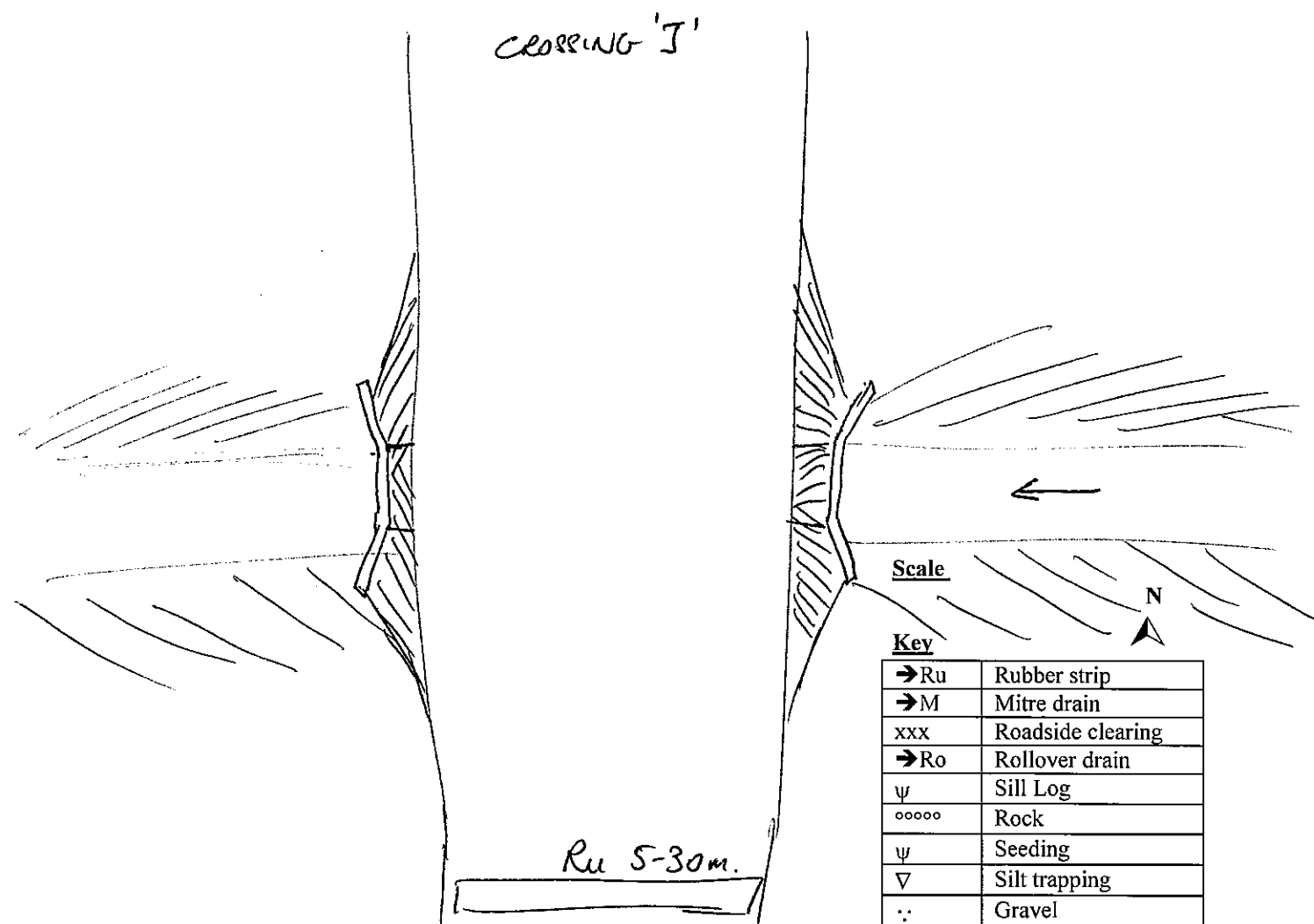
**CROSSING NAME:** K **Assessors Name:** K Petty **Crossing Type:** Upgrade to pipes

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Install pipes	Machine/pipes
Bed and Banks	Remove debris from bed.	
Erosion and Sediment Control	Temporary measures while constructing, seed/mulch.	Seed/mulch/silt fencing.
Disposal of excess spoil	Debris outside feature width	
Soil Stabilisation within 20m	Seed/mulch, compact surfaces	
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flap/mitres Natural veg/slash/silt trapping devices Silt fencing 5-20m	Rubber flap Silt fencing

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	20	Vegetated
1:10	600	20	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

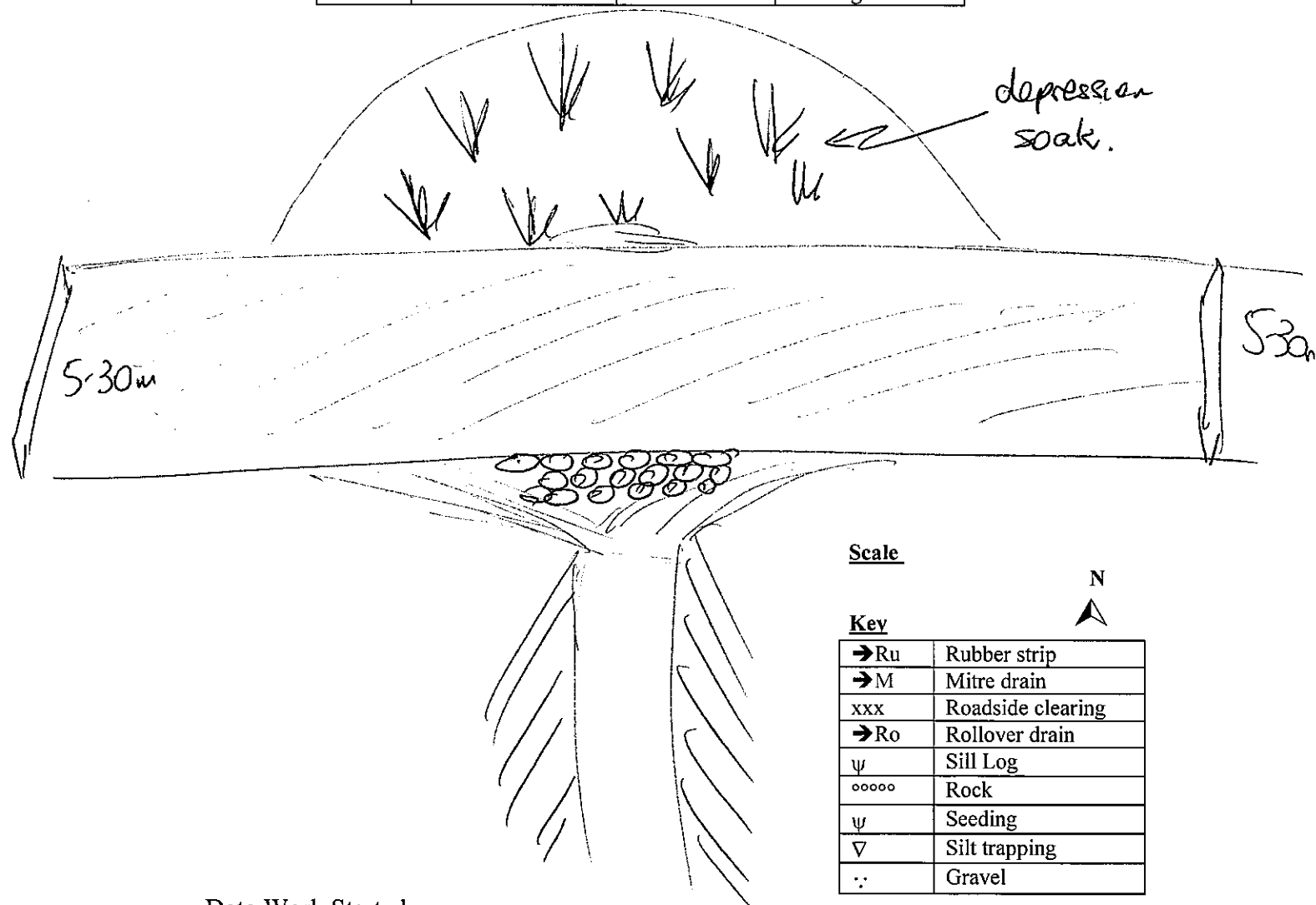
**CROSSING NAME:** L **Assessors Name:** K Petty **Crossing Type:** Log/Earth Gully Stuffer

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Stable.	
Bed and Banks	Nil – vegetated & stable	
Erosion and Sediment Control	Vegetated & stable	
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Vegetated and stable.	
Road drainage within 5-20m		
<ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flaps/mitres Natural veg/slash/silt trapping devices Leave undisturbed 5-20m	Rubber flaps

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	<300	20	Vegetated
1:10	<300	20	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_



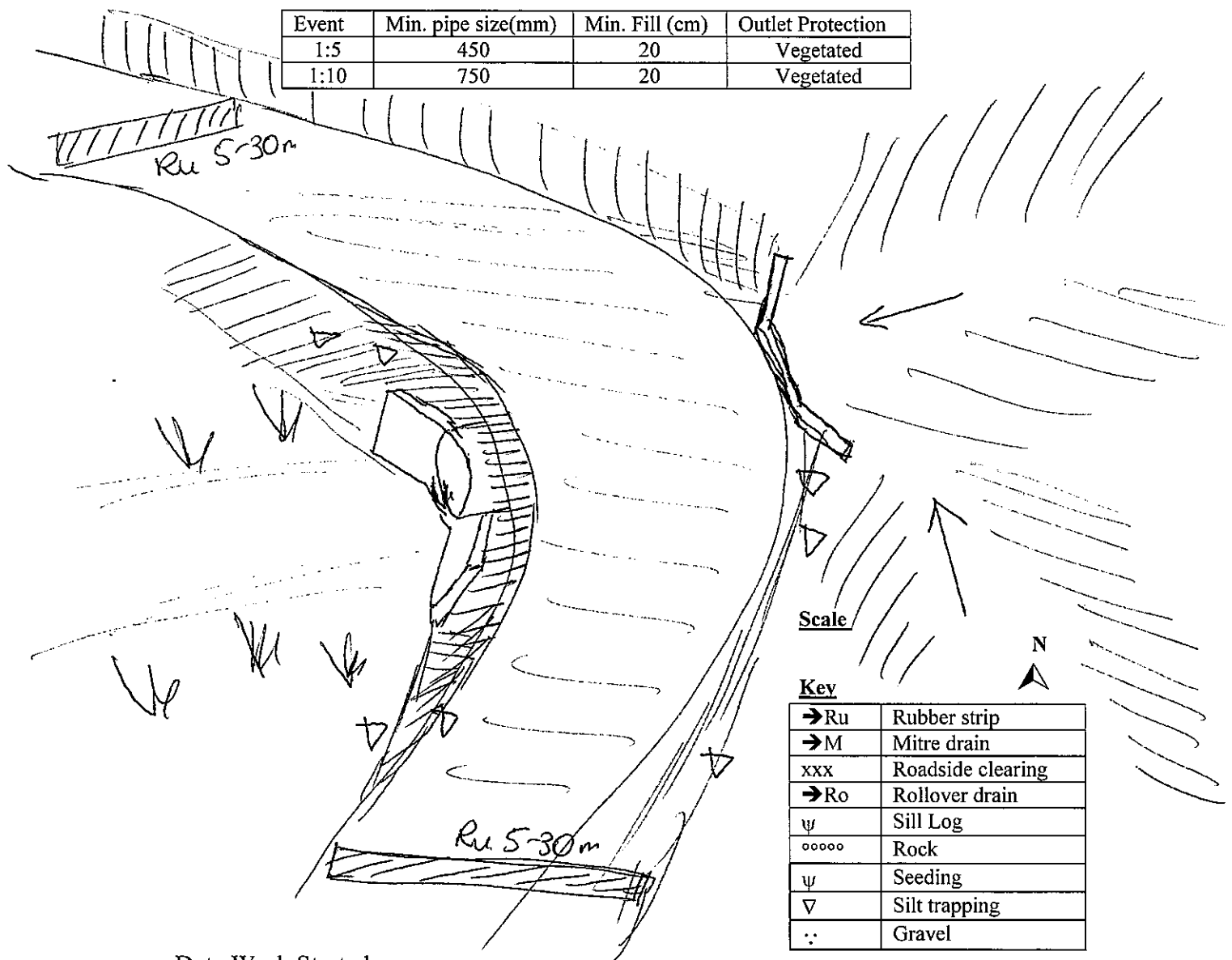
**CROSSING NAME:** M **Assessors Name:** K Petty **Crossing Type:** Upgrade to pipes

Features	Works (As per EPL Schedule 4& 5)	Plant/Materials
Structure	Remove log & debris. Replace with pipe	Machine/labour/pipe
Bed and Banks	Reshape, realign approach if required	
Erosion and Sediment Control	Silt fencing/seed/mulch	Silt fencing/seed/mulch
Disposal of excess spoil	Nil	
Soil Stabilisation within 20m	Seed/mulch/compact surfaces	
Road drainage within 5-20m <ul style="list-style-type: none"> <li>Type</li> <li>outlet control</li> <li>table drain checking devices</li> </ul>	Rubber flap Natural veg/slash/silt trapping devices Silt fencing 5-20m	Rubber flap

Date of Assessment: 17/7/08

Final Crossing Use: Retain

Event	Min. pipe size(mm)	Min. Fill (cm)	Outlet Protection
1:5	450	20	Vegetated
1:10	750	20	Vegetated



Date Work Started: \_\_\_\_\_

Date Work Finished: \_\_\_\_\_

Soil stabilisation must be completed within 5 days

Record implementation date here: \_\_\_\_\_

## ATTACHMENT 3

## POST-HARVEST BURNING PLAN



## 6.08.01 Bush Fire Mapping Symbols

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

NAME	SYMBOL	NOTES
PREDICTED (fire edge)		Show DTG
GOING (fire edge)		Show DTG
CONTAINED (fire edge)		Show DTG
PROPOSED (control line)	X—X—X—X—X—X—	Draw on far side of feature
COMPLETED (control line)	X+X+X+X+X+X+	Show DTG
PROPOSED (backburn)		Draw on near side of feature
COMPLETED (backburn)		Show DTG
BACKBURN BURNING IN		Lines show depth of burn at DTG
<b>RED – FIRE</b> <b>BLACK – CONTROL LINES</b> <b>BLUE – WRITING &amp; SYMBOLS</b>		
△ Strategic or Tactical Significance	○ Command, Control & Coordination	□ Logistics Related
		◇ Assets to be Protected
Fire Origin	Red	Show DTG
Fire Direction	Blue	Show DTG
Wind Direction	Blue	Show DTG
Spot Fire	Red	Isolated fire ahead of main fire
Burnt Area	Black	Burnt area (if old, show month and year)
Aerial Ignition	Red	Proposed path to be treated
Divisional Boundary	Blue	Use geographical names
Sector Boundary	Blue	Use alphabetical names
Refuge Area	Blue	Escape Route (Add arrow to show safe exit)
Control Centre (Incident Management Team location)	Blue	Staging Area (Where resources are prepared or available)
Divisional Command	Blue	Base Camp
Sector Command	Blue	Airbase (Fixed wing and/or helicopter base)
Helipad	Blue	Water Point Helicopter (Helicopter water supply)
Water Point Vehicle (Firefighting water supply)	Blue	Aboriginal Site or Artifacts
Ambulance Location	Blue	Endangered Flora
Threatened Property	Blue	Endangered Fauna
Historic Site (Building or Structures)	Blue	

The use of colours is optional.

## PLANNING INFORMATION

**LGA:** Palerang

### Fuel Management Zone & Proposed Burn Summary

Refer to area identification and silviculture and harvesting prescription sections of harvest plan. **Season:** Winter / Spring

**Zone 3B** (Post-Harvest)

## REGIONAL BURNING GUIDELINES

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

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

**Max Fuel Moisture Range:** 12-25%      **Max Rate of Spread:** < 300m/hr.      **Average Flame height:** up to 4m – Post Log  
<1 – 2m – Broad Area

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

## BURN AREA INFORMATION

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

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

**Terrain:** 0%>30°, 1% @ 25°-30°, 9% @ 20°-25°, 38% @ 10°-20°, 52% @ 0°-10° slope.

**Time since last burn:** 1993

## IMPORTANT BURNING PRESCRIPTIONS

- A small test burn must always be lit prior to main burn. This will assist in determining FIRE BEHAVIOUR and IGNITION PATTERNS.
- **Seek information from Harvesting Contract Coordinator on regrowth excluded burn areas.**
- Sections will be lit by drip torch to a determined ignition pattern.
- Areas will generally be burnt from ridge tops down and into the wind to minimise excessive fire behaviour.
- **Minimise fire intensity in regrowth stands.**

## BURN OBJECTIVES

- To reduce fuel loads to 4-8 tonnes/ha. (assisting future fire suppression)
- A burn coverage between 60-80%
- To contain fire within designated boundaries.
- To observe and record data, assisting in future high fuel load and advanced regrowth area burns.
- To minimise crown scorch; not exceeding 10% of dominant and co-dominant crowns.
- To minimise defect damage to retained regrowth stems.

## ENVIRONMENTAL PRESCRIPTIONS

**FLORA AND FAUNA:**

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

**SOIL, WATER & AQUATIC HABITAT:**

Refer to Soils and Water and Drainage Features sections of the Harvest plan document.

- Preferred months of burn – April to September
- Fuel moisture differentials will be utilised to minimise impacts upon drainage features within the burn area
- Harvesting of unmapped drainage lines was planned to occur within these compartments. To ensure that >70% ground cover within the modified harvest zone of the unmapped drainage lines is not compromised, the burn supervisor should pay particular attention to the fuel moisture differentials mentioned above and not deliberately burn heads within the modified harvesting zone.

**ABORIGINAL CULTURAL HERITAGE:**

Refer to the cultural heritage section of the Harvest plan document. Significant sites, e.g. scar trees, groove stones, should be raked around to prevent fire damage. Where practically possible, burning of scattered artefacts should be avoided.

## CONTROL AND STRATEGY

**CONTROL LINES:**

EXISTING Description of each control line	Description of Work Required	Completed Yes /No
Bombay Fire Trail	Nil	
Internal roads	Nil	
Elrington Creek	Fuel moisture >16%	
Check for trees that could burn down and fall over any boundary roads and wet down or rake around as necessary		
PROPOSED Description of each control line	Description of Work Required	Completed Yes /No
Additional control lines may be required where snig track network is not adequate along boundaries of NHA	To be determined by Contract Coordinator/SFO during harvesting.	

**SMOKE HAZARD AND MANAGEMENT:** <http://www.bom.gov.au/general/reg/smoke/nsw/index.shtml>

Smoke / Hazard Reduction Signs required?:..... ☐ YES ☐ NO ( ☒ tick to indicate)

Smoke Dispersion Forecasting via BOM utilised?..... ☐ YES ☐ NO ( ☒ tick to indicate)

Safety Considerations (pre-burn)		DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
Personnel	Names of fire crew documented daily.							
Visitors on site	Visitor on site induction carried out							
Neighbours notified	Documented in plan							
Traffic control	Traffic control signs to regulate traffic if required							
Smoke management:	Assessment of prevailing winds at the time of burn. Road side signs warning of smoke hazard.							

**Pre-burn preparation activities and responsibilities.**

Activity	Specifications and tasks	Responsibility (inc date)	Signature
Fuel monitoring	Regular monitoring prior to burning		
Weather monitoring	Conducted prior to and during burning operations.		
Trail preparation <ul style="list-style-type: none"> <li>D3</li> <li>Hand tools</li> </ul>	Mineral earth control lines prepared prior to burning to contain fire within designated burning block.		
Neighbour liaison	Notification and communications documented.		
Liaison with fire & emergency authorities	“as above”		
Media releases	To advise local community of SF burning activities.		
Radio station notifications	“as above”		
Equipment	Ensure all required equipment is available.		
Communications	“as above”		
Visitor Safety	Burn is sign posted. All visitors to report to burn supervisor immediately		
Burn approval	Daily burn approvals given by delegated officers		
Supervisor to initial			

**NOTIFICATION & RESOURCE REQUIREMENTS**

Neighbours.....☐

Contractors.....☐

Lessees.....☐

Apiarists.....☐

Shire FCO.....☐

Govt Agencies.....☐

**NOTIFICATION REGISTER**

RFS (Rural Fire Service) ☐

Name	Position	Phone Number	Notified
	FCO		

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

Owner	Postal Address	Lot / Plan	Phone	Notification Letters sent	Reply Received

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

Name	Site Number/s	Phone Number	Notified


**DAILY CREW SMEACS BRIEFING SHEET**

(Tick daily when briefed)

DAY 1 2 3 4 5 6 7

**SITUATION**

- Burn area to be treated (location, boundaries, control line types and exclusive areas) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Burn area characteristics (e.g. terrain, forest cover, sensitive areas, etc) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Burn area access by road class (checked beforehand, dead ends, watering points etc.) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Fuel Loadings and fire behaviour prescriptions for the HRB area ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Staging areas ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Expected weather ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐

**MISSION**

- Overall aim of the hazard reduction burn ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Site specific aims for sections of the HRB (e.g. protection of patches of advanced regrowth, rainforest pockets, buildings, bridges, etc.) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Secondary aim/s should the HRB escape ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐

**EXECUTION**

- Plant and manpower resources (FNSW, RFS, OEH, others) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Division of burn area into 'Sections' ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Starting points, starting times, finish times (start 'down wind' if possible) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Safe 'approved' lighting patterns and directions ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Work down-slope, keeping below active fire (except where good fuel breaks occur) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Location and activity of other burning crews ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Personal and crew safety - buddy system when lighting up ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Progress reports at pre-designated times ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Maintain awareness of other burning crews (do not light up below other burning crews) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Expected fire behaviour, trouble points and contingency plans ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Actions to be taken in the event of an escape e.g. to pause the light-up ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- End of burn debrief e.g. reporting areas requiring 'follow-up' patrols after burn ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐

**ADMINISTRATION**

- Reporting field fire weather to the office at regular times ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Receiving forecast weather reports from office ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Logistical support (fuel, food, water, heavy plant, back-up crews etc.) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐

**CONTROL, COMMAND, COMMUNICATIONS**

- Chain of command (burn supervisor and sector bosses) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Communications systems for fire-ground and command (UHF & VHF radios, mobile phones) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐

**SAFETY**

- Medical Emergency Evacuation Plan & Site Safety Plan ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Areas of likely tree or limb falling hazards (methods to identify/mark hazards) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Look up and look around procedure (for self and workmates) ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Location first aid kits and first aiders ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Pre-burn safety actions including 'Smoke Hazard' sign locations, traffic control plan etc ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Location of safety zones, and escape routes ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Safe parking of SF vehicles within the burn area and vehicle speeds during the burn ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Crew vehicles to have headlights and flashing beacons on where practicable ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Schedule adequate rest breaks and set appropriate work pace ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Ensure crews have access to supplies of drinking water ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Visitors to the site are inducted into the SSP ..... ☐ ☐ ☐ ☐ ☐ ☐ ☐

Day 1 - Burn Supervisor.....Date.....	Day 2 - Burn Supervisor.....Date.....
Day 3 - Burn Supervisor.....Date.....	Day 4 - Burn Supervisor.....Date.....
Day 5 - Burn Supervisor.....Date.....	Day 6 - Burn Supervisor.....Date.....
Day 7 - Burn Supervisor.....Date.....	Day 8 - Burn Supervisor.....Date.....

**EMPLOYEE IDENTIFICATION**

EMPLOYEE	NAME	PROOF OF ACCREDITATION (E.g. FNSW RECORDS)	DATE	SUPERVISOR OR RELEVANT AGENCY SIGNATURE
----------	------	---	------	---

<b>Incident Controller</b>				
<b>Burn Supervisor</b>				
<b>Crew Leader</b>				
<b>Crew Leader</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				
<b>Crew Member</b>				

**Personnel and equipment requirements:**

Resource	State Forests	NPWS	Brigades	Contract Coordinator Signature
Incident Controller				
Crew Leaders				
Crew Members				
Tankers	1			
Slip – on Units	1+			
Dozer	n/a			
Helicopter	n/a			
Radios – handheld UHF	1 per person			
Weather monitoring equip.	1 per crew			

Burning Operations Record**Forecast Weather and Indices** (Obtain from Office)

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

**Burn Site Weather Readings**

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

Date	Time	Temp (°C)	RH (%)	Wind Direction	Wind Sp. (km/h)	FDI	FMC %	COMMENTS

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

**Ignition details – DATE (s).....**

**Type:** Aerial / Ground    **Method:** Contour / Ridge / Road edge / Top disposal    **Pattern:** Line / Spots

**Incendiary Capsules used:** \_\_\_\_\_ (aerial ignition only)

**Ignition details – DATE (s).....**

**Type:** Aerial / Ground    **Method:** Contour / Ridge / Road edge / Top disposal    **Pattern:** Line / Spots

**Incendiary Capsules used:** \_\_\_\_\_ (aerial ignition only)

**Ignition details – DATE (s).....**

**Type:** Aerial / Ground    **Method:** Contour / Ridge / Road edge / Top disposal    **Pattern:** Line / Spots

**Incendiary Capsules used:** \_\_\_\_\_ (aerial ignition only)

**Ignition details – DATE/s**

**Type:** Aerial / Ground    **Method:** Contour / Ridge / Road edge / Top disposal    **Pattern:** Line / Spots

**Incendiary Capsules used:** \_\_\_\_\_ (aerial ignition only)

#### POST BURN ASSESSMENT

Estimated burn coverage (% of net area):.....%

Estimated burn coverage:.....ha

Fine fuel reduced to an average of :.....t/ha

Estimated area of crown scorch :..... %

#### OPERATIONAL PERFORMANCE REVIEW

Burn complete? Yes/No

Follow up action required ? Yes/No

Burn contained within planned boundaries? Yes/No



Burn coverage objective met?	Yes/No
Fine fuel reduction objective met?	Yes/No
Environmental prescriptions met?	Yes/No
Threatened Species License conditions met?	Yes/No
Fisheries License conditions met?	Yes/No

Remedial Action required (if any):

Remedial works certified complete.

Work Supervisor: Date:

Comments:

Attach additional pages as required