CONSERVATION COMMISSION OF WESTERN AUSTRALIA - REPORT ON THE OLD-GROWTH NOMINATION WITHIN MERIBUP FOREST BLOCK - COMPARTMENT 03

Executive Summary

In September 2011 the Conservation Commission received a public nomination for a review of old-growth forest status within Meribup forest block compartment 03.

The Department of Environment and Conservation (DEC) dieback interpretation mapping designated the nomination area as 'dieback free'.

An area of approximately 125 hectares has been identified by the Conservation Commission as meeting the criteria of old-growth forest. *This area has been determined as unavailable for timber harvesting.*

Background

This report summarises the Conservation Commission's findings based on its consideration of available records, inputs and field sampling undertaken by the Conservation Commission audit staff. The following old-growth forest definition applies to the assessment area:

• Jarrah and jarrah/tingle forest: "uncut forest or forest subject to minimal disturbance which is not known to be affected by *Phytophthora cinnamomi*".

In accordance with the Conservation Commission's paper Assessment criteria and process for the Conservation Commission review of old-growth amendments the effects of disturbance are considered more than minimal where changes to the structure of the overstorey caused by these disturbances are still evident.

Public nomination of old-growth

As required in the Forest Management Plan 2004-2013 (FMP) and further detailed in the Conservation Commission's paper Assessment criteria and process for the Conservation Commission review of old-growth amendments, there is a process for persons to request the Conservation Commission to assess whether areas on an indicative timber harvest plan should

be classified as old-growth forest in DEC's corporate database. Such a request was received and was accepted for assessment in relation to Meribup forest block compartment 03.

Nomination areas

The nominee provided a map of 8 separate specific areas within the coupe. Due to the presence of existing mapped old-growth forest adjacent to the coupe the Conservation Commission assessed an area totalling 720 hectares. This area is shown in Map 1. An area within the coupe was not assessed as logging in wet weather approved locations had commenced.

Site Description

Meribup forest block compartment 03 is located 36km south east of the town of Manjimup. The area within the coupe is gently sloping and varies between 200m and 250m above sea level. Rainfall varies between 600mm and 900mm per annum. Parts of the coupe have been heavily impacted by historical fire events.

Forest types

The broad description of forest type for the coupe is jarrah forest, there are three vegetation complexes occurring within the coupe. These are Bevan 2, Corbalup 2 and Catterick with some intermediate vegetation types occurring along these margins. There are variations in the size and structure of the forest (perhaps due to shallow soil profiles) that may have influenced the nature of past harvesting. There are also areas of non-forest vegetation around upland depressions and streams. These non-forest areas are normally identified by DEC as informal reserve type; diverse ecotype zones (DEZ). Both old-growth forest reserves and DEZ reserves are unavailable for harvesting. These areas are shown in Map 2.

Sampling Process

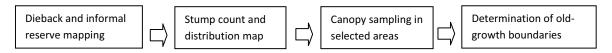
Sampling incorporated the process outlined in the document Assessment criteria and process for the Conservation Commission review of old-growth amendments.

Remote Analysis

The nomination area was reviewed and sample areas were defined using the following background information:-

- Digitised aerial photos and data layers were used to confirm forest and non-forest structural boundaries and general observations in relation to forest structure;
- The latest available harvesting records, dieback sampling and forest types,
 vegetation complex and informal reserves as provided by DEC; and
- Stump distribution data for the portion of the area surveyed by DEC.

Stratification process



Field Checks

DEC harvesting records indicate the majority of Meribup 03 was harvested in the 1960's. Conservation Commission audit staff initially verified a portion of stump survey work completed by DEC. A comprehensive stump survey was then undertaken by Commission staff throughout the remaining nomination area not initially sampled by DEC to determine old-growth forest boundaries. The stratification of field sampling was undertaken using stump distribution mapping and the specifically nominated areas identified as likely old-growth forest from the public nomination. The majority of these areas were located in the Bevan 2 vegetation complex.

Results and Findings

<u>Dieback</u>

The most recent DEC dieback samples taken within Meribup 03 indicate the area to be free of dieback.

Stump data analysis

A broad evaluation of stump distribution within the coupe shows a greater intensity of harvesting in the laterite uplands of the Bevan 2 vegetation complex as shown in Map 2. Visual inspection revealed most of this area to be jarrah dominant and have a high number of stumps per hectare. There was also evidence of numerous forest tracks and snig tracks. A gradual reduction in stump intensity was observed on the margins of vegetation complexes into the Catterick vegetation complex. These areas were characterised by a thin strip of woodland surrounding non-forest stream zones. The reduction of stumps is most likely a reflection of the lower quantity and poorer quality of timber in these areas and hence limited historical timber harvesting. Large stumps were still observed very close to the stream zones suggesting the bigger, better quality jarrah trees had been picked out of the woodland areas surrounding the stream zones.

Stump analysis revealed a variable history of disturbance within the coupe. Some high cut stumps typical of pre 1960's harvesting were not common but were observed in parts of the coupe as well as pole cutting and firewood collection. Parts of the coupe appeared severely impacted by fire and many stumps had been burnt out. The intensity of harvesting is therefore potentially higher than that indicated by stump enumeration alone. As indicated however, canopy sampling in conjunction with stump analysis allows measurement of disturbance to the canopy where these harvesting disturbances may still be evident.

Canopy Sampling and boundary demarcation

Canopy sampling was undertaken in areas nominated with less than two stumps per hectare and an area with approximately 3 stumps per hectare. These areas were selected to provide benchmark canopy sampling data for minimally disturbed old-growth forest and in areas with greater disturbance to establish a lower threshold of what constituted minimally disturbed old-growth forest in the coupe. Benchmark canopy sampling from the Bevan 2 vegetation complex in adjacent Talling forest block has also been included in Table 1. Sample points were spaced at 10 metre intervals to increase the sample size. Two-hectares is the minimum size requirement for old-growth forest where the minimum width is 141 meters. A half hectare grid was used to determine this minimum size requirement, and to assist in defining the boundaries of old-growth forest.

Canopy sampling analysis

From stump intensity analysis three areas were selected for canopy sampling as shown in Map 3. These areas were located within the Bevan 2 vegetation complexes. Area 1 and area 3 were sampled in areas that were approximately 1 stump per hectare. Area 3 was sampled at approximately 4 stumps per hectare.

More detailed sampling within area 1 returned an average of 0 stumps per hectare and an estimated upper canopy proportion of mature or senescent trees of 52.1 percent. This figure falls within the benchmark figure of 55 percent gathered from the benchmarking site in Talling forest block. Sampling within area 2 returned an average of 3 stumps per hectare and an average estimated upper canopy proportion of mature or senescent trees of 42.6 percent which is below the minimum requirement. Area 3 returned an average of less than 1 stump per hectare and an estimated upper canopy proportion of mature or senescent trees of 53.7 percent. This figure also falls within the benchmark figure of 55 percent gathered from the benchmarking site in Talling forest block. Therefore all the areas of 2 or fewer stumps per hectare were mapped as old-growth forest where they met the minimum size requirements. Areas with greater than 2 stumps per hectare were determined to be non old-growth forest.

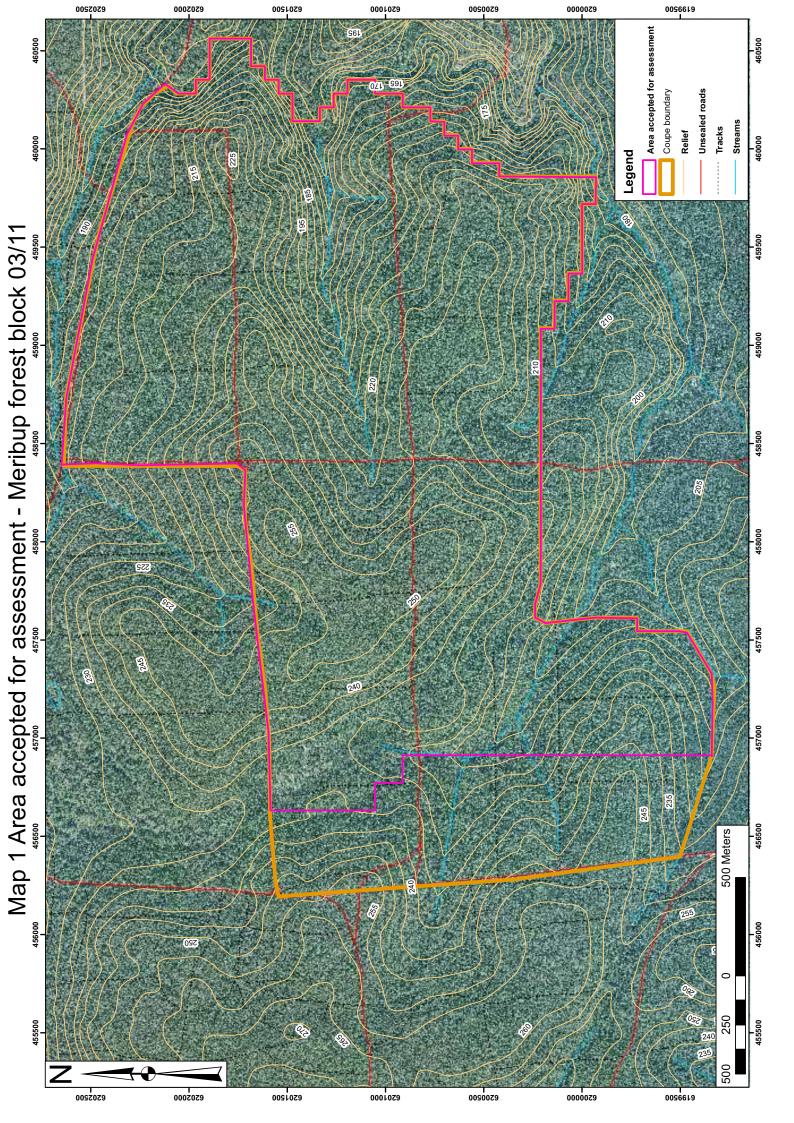
Table 1 Sample Results.

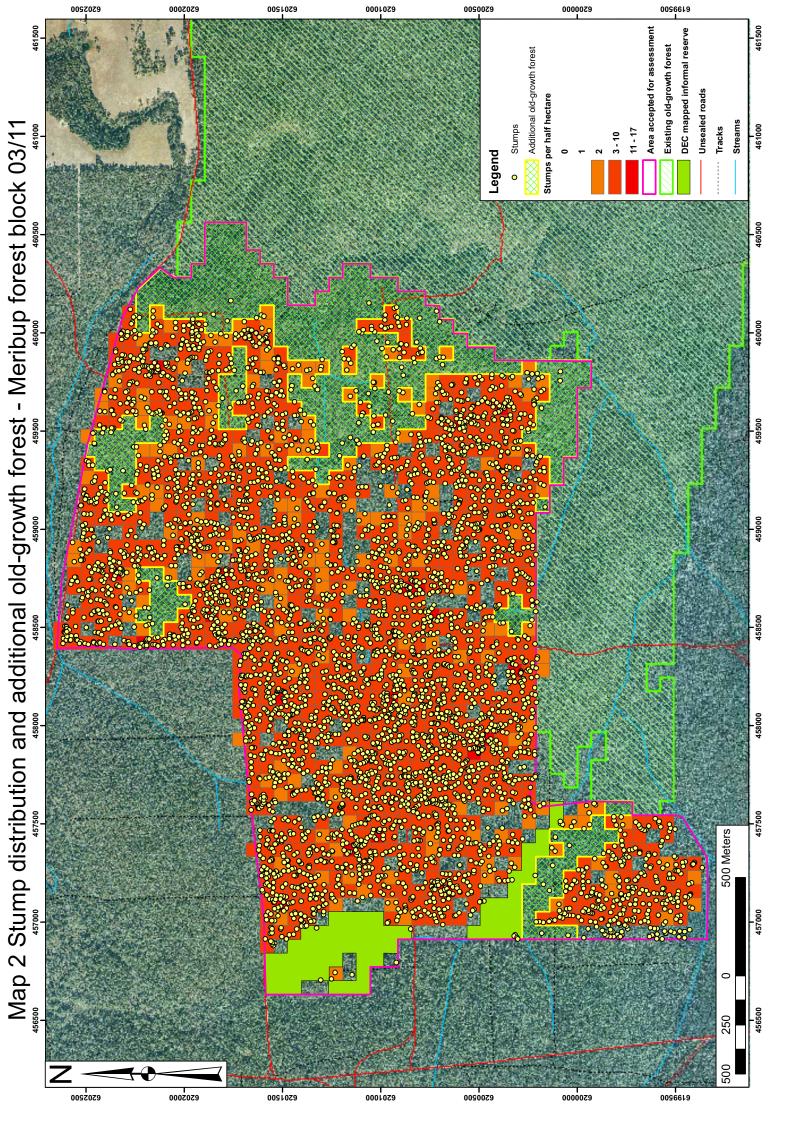
Sample areas & associated vegetation complex	Estimated number of stumps per hectare	Estimated total upper crown cover	Estimated upper crown proportion of mature or senescent trees	Estimated upper crown proportion of regrowth trees	Old Growth
Benchmarking site Bevan 2	0	61.1%	55%	45%	Yes
Area 1 Bevan 2	0	73.7%	52.1%	47.9%	Yes
Area 2 Bevan 2	3	57.4%	42.6%	64.7%	No
Area 3 Bevan 2	1</td <td>66.7%</td> <td>53.7%</td> <td>46.3%</td> <td>Yes</td>	66.7%	53.7%	46.3%	Yes

Summary

Therefore in summary:-

An area of approximately 125 hectares has been determined as old-growth forest and *will be unavailable for timber harvesting*. Those areas <u>not</u> determined to be old-growth forest *will remain available for timber harvesting*.





Area 1 canopy sampling results

FID	CANOPY	SPECIES	DBH	DEVELOPMENT	DISTURBANCE	QUALITATIVE
539 540	YES YES	JARRAH JARRAH	30 30	REGROWTH REGROWTH		MIXED MIXED
541	NO	GAP	0	GAP		MIXED
542	NO	GAP	0	GAP		GAP
543	YES	JARRAH	40	REGROWTH	OLD FOREST TRACK	MIXED
544	YES	JARRAH	40	REGROWTH		MIXED
545 546	NO YES	GAP JARRAH	0 50	GAP MATURE/SEN		MIXED MOSTLY UPPER
547	NO	GAP	0	GAP		GAP
548	YES	JARRAH	40	REGROWTH		MIXED
549	YES	JARRAH	70	MATURE/SEN		MOSTLY UPPER
550 551	YES	JARRAH	50 50	MATURE/SEN		MOSTLY UPPER
551 552	YES YES	JARRAH MARRI	50 15	MATURE/SEN REGROWTH		MOSTLY UPPER MIXED
553	YES	JARRAH	30	REGROWTH		MIXED
554	YES	JARRAH	40	REGROWTH		MIXED
555	YES	JARRAH	30	REGROWTH		MIXED
556 557	NO YES	GAP JARRAH	0 50	GAP MATURE/SEN		GAP MIXED
557 558	YES	JARRAH	40	REGROWTH		MOSTLY LOWER
559	YES	JARRAH	50	MATURE/SEN		MIXED
560	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
561	YES	JARRAH	50	MATURE/SEN		MOSTLY UPPER
562 563	NO YES	GAP JARRAH	0 60	GAP MATURE/SEN		MOSTLY UPPER MOSTLY UPPER
564	YES	JARRAH	30	REGROWTH		MOSTLY LOWER
565	YES	JARRAH	20	REGROWTH		MOSTLY LOWER
566	YES	MARRI	60	MATURE/SEN		MOSTLY UPPER
567	NO	GAP	0	GAP		MIXED
568 569	YES YES	JARRAH JARRAH	40 30	REGROWTH REGROWTH		MIXED MOSTLY LOWER
570	YES	JARRAH	60	MATURE/SEN		MIXED
571	YES	JARRAH	30	REGROWTH		MIXED
572	YES	JARRAH	30	REGROWTH		MIXED
573 574	YES YES	JARRAH JARRAH	60 20	MATURE/SEN REGROWTH		MOSTLY UPPER MIXED
575	YES	JARRAH	50	MATURE/SEN		MOSTLY UPPER
576	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
577	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
578 570	YES YES	MARRI	60 60	MATURE/SEN		MIXED
579 580	NO NO	JARRAH GAP	0	MATURE/SEN GAP		MIXED MOSTLY LOWER
581	NO	GAP	0	GAP		MIXED
582	YES	JARRAH	50	MATURE/SEN		MOSTLY UPPER
583	YES	JARRAH	30	REGROWTH		MIXED
584 585	YES YES	JARRAH JARRAH	40 60	REGROWTH MATURE/SEN		MIXED MOSTLY UPPER
586	NO	GAP	0	GAP		GAP
587	YES	JARRAH	60	MATURE/SEN		MIXED
588	YES	JARRAH	30	REGROWTH		MOSTLY LOWER
589 590	YES YES	JARRAH JARRAH	50 60	MATURE/SEN MATURE/SEN		MIXED MOSTLY UPPER
591	NO	GAP	0	GAP		GAP
592	YES	JARRAH	40	REGROWTH		MIXED
593	YES	JARRAH	30	REGROWTH		MOSTLY LOWER
594 595	NO NO	GAP GAP	0 0	GAP GAP		MOSTLY LOWER GAP
596	NO	GAP	0	GAP		MIXED
597	YES	JARRAH	70	MATURE/SEN		MOSTLY UPPER
598	YES	JARRAH	100	MATURE/SEN		MOSTLY UPPER
599 600	NO	GAP	0	GAP		GAP MOSTLY LOWER
601	YES YES	JARRAH JARRAH	30 40	REGROWTH REGROWTH		MIXED
602	YES	JARRAH	40	REGROWTH		MIXED
603	NO	GAP	0	GAP		MOSTLY LOWER
604	NO	GAP	0	GAP		GAP
605 606	NO YES	GAP JARRAH	0 70	GAP MATURE/SEN		MIXED MOSTLY UPPER
607	YES	JARRAH	30	REGROWTH		MOSTLY LOWER
608	YES	JARRAH	50	MATURE/SEN		MOSTLY UPPER
609	YES	JARRAH	40	REGROWTH		MIXED
610 611	YES YES	JARRAH JARRAH	40 30	REGROWTH REGROWTH		MIXED MOSTLY LOWER
612	YES	JARRAH	30	REGROWTH		MOSTLY LOWER
613	NO	GAP	0	GAP		GAP
614	NO	GAP	0	GAP		MOSTLY LOWER
615	NO	GAP	0	GAP		GAP

Area 1 canopy sampling results

FID 616 617 618 619 620 621 622 623 624 625 626 627 628	CANOPY YES YES YES YES YES NO YES YES YES NO YES YES YES NO NO YES	SPECIES JARRAH JARRAH JARRAH JARRAH JARRAH GAP JARRAH JARRAH JARRAH JARRAH GAP GAP GAP JARRAH	DBH 30 20 60 30 60 0 70 30 50 60 0 0 60	DEVELOPMENT REGROWTH REGROWTH MATURE/SEN REGROWTH MATURE/SEN GAP MATURE/SEN REGROWTH MATURE/SEN MATURE/SEN MATURE/SEN GAP GAP GAP MATURE/SEN	DISTURBANCE	QUALITATIVE MOSTLY LOWER MOSTLY LOWER MOSTLY UPPER MOSTLY UPPER MIXED MOSTLY UPPER MIXED GAP MOSTLY UPPER
629 630 631 632 633 634 635 636 637	NO YES YES YES YES NO YES YES YES	GAP JARRAH JARRAH JARRAH JARRAH GAP JARRAH MARRI MARRI	0 50 40 60 60 0 60 50	GAP MATURE/SEN REGROWTH MATURE/SEN MATURE/SEN GAP MATURE/SEN MATURE/SEN MATURE/SEN MATURE/SEN	OLD FOREST TRACK	MOSTLYUPPER MOSTLY UPPER MIXED MIXED MOSTLY UPPER GAP MIXED MIXED MIXED MOSTLY UPPER

Area 2 canopy sampling results

199 VES	FID	CANOPY	SPECIES	DBH	DEVELOPMENT	DISTURBANCE	QUALITATIVE
YES						DISTURBANCE	
YES							
YES							
223 NO							
724 YES JARRAH 60 MATURE/SEN MOSTLY UPPER 725 YES JARRAH 60 GAP MIXED 726 NO GAP 0 GAP MIXED 727 YES JARRAH 40 REGROWTH MIXED 728 YES MARRI 60 MATURE/SEN MOSTLY UPPER 730 YES MARRI 60 MATURE/SEN MOSTLY UPPER 731 YES JARRAH 60 MATURE/SEN MMCD 732 YES JARRAH 60 MATURE/SEN MOSTLY UPPER 733 YES JARRAH 60 GAP MEGOROWTH MIXED 733 YES JARRAH 60 MATURE/SEN MIXED 735 YES JARRAH 60 MATURE/SEN MIXED 737 YES JARRAH 60 MATURE/SEN MIXED 739 YES JARRAH 60 MATURE/SEN MIXED							
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784 YES JARRAH 30 REGROWTH MIXED 785 YES JARRAH 40 REGROWTH MIXED 786 NO GAP 0 GAP GAP 787 NO GAP 0 GAP MOSTLY LOWER 788 YES MARRI 20 REGROWTH MOSTLY LOWER 789 NO GAP 0 GAP MOSTLY LOWER 790 YES JARRAH 80 MATURE/SEN MIXED 791 YES JARRAH 60 MATURE/SEN MOSTLY UPPER 792 YES JARRAH 70 MATURE/SEN MOSTLY UPPER 793 NO GAP 0 GAP MIXED 794 NO GAP 0 GAP MOSTLY LOWER							
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791 YES JARRAH 60 MATURE/SEN MOSTLY UPPER 792 YES JARRAH 70 MATURE/SEN MOSTLY UPPER 793 NO GAP 0 GAP MIXED 794 NO GAP 0 GAP MOSTLY LOWER							
792 YES JARRAH 70 MATURE/SEN MOSTLY UPPER 793 NO GAP 0 GAP MIXED 794 NO GAP 0 GAP MOSTLY LOWER							
793 NO GAP 0 GAP MIXED 794 NO GAP 0 GAP MOSTLY LOWER							
794 NO GAP 0 GAP MOSTLY LOWER							
190 IES JARKAN SU KEGKUWIH MIXED							
	1 33	ILO	OCH VIVAII	50	NEONOWIT		MIVED

Area 2 canopy sampling results

FID	CANOPY	SPECIES	DBH	DEVELOPMENT	DISTURBANCE	QUALITATIVE
796	NO	GAP	0	GAP		MOSTLY LOWER
797	NO	GAP	0	GAP		GAP
798	YES	JARRAH	30	REGROWTH		MIXED
799	YES	JARRAH	40	REGROWTH		MOSTLY UPPER
800	NO	GAP	0	GAP		MOSTLY UPPER
801	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
802	YES	MARRI	60	MATURE/SEN		MOSTLY UPPER
803	YES	JARRAH	60	MATURE/SEN		MIXED
804	YES	JARRAH	40	REGROWTH		MIXED
805	YES	JARRAH	40	REGROWTH		MOSTLY UPPER
806	YES	JARRAH	50	MATURE/SEN		MOSTLY UPPER
807	YES	JARRAH	50	REGROWTH		MOSTLY UPPER
808	NO	GAP	0	GAP		GAP
809	YES	JARRAH	40	REGROWTH		MIXED
810	YES	JARRAH	30	REGROWTH		MOSTLY LOWER
811	YES	JARRAH	40	REGROWTH		MOSTLY UPPER
812	YES	JARRAH	30	REGROWTH		MIXED
813	YES	JARRAH	50	MATURE/SEN		MIXED
814	YES	JARRAH	30	REGROWTH		MIXED
815	YES	JARRAH	40	REGROWTH		MIXED
816	NO	GAP	0	GAP		MIXED
817	YES	MARRI	70	MATURE/SEN		MIXED
818	NO	GAP	0	GAP		MOSTLY LOWER
819	YES	JARRAH	20	REGROWTH		MOSTLY LOWER
820	YES	JARRAH	40	REGROWTH		MIXED
821	YES	JARRAH	40	REGROWTH		MIXED
822	YES	MARRI	60	MATURE/SEN		MIXED
823	NO	GAP	0	GAP		MIXED

FID	CANOPY	SPECIES	DBH	DEVELOPMENT	DISTURBANCE	QUALITATIVE
638	YES	JARRAH	50	MATURE/SEN		MOSTLY UPPER
639 640	YES NO	JARRAH GAP	50 0	MATURE/SEN GAP		MOSTLY UPPER MOSTLY LOWER
641	NO NO	GAP	0	GAP		MOSTLY UPPER
642	YES	MARRI	120	MATURE/SEN		MOSTLY UPPER
643	NO	JARRAH	50	MATURE/SEN		MOSTLY UPPER
644 645	NO YES	GAP JARRAH	0 50	GAP MATURE/SEN		MOSTLY LOWER MOSTLY UPPER
646	NO	GAP	0	GAP		GAP
647	YES	JARRAH	50	MATURE/SEN		MIXED
648	YES	JARRAH	50	REGROWTH		MIXED
649 650	NO YES	GAP MARRI	0 60	GAP MATURE/SEN		GAP MIXED
651	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
652	NO	GAP	0	GAP		MOSTLY LOWER
653	YES	MARRI	20	REGROWTH		MIXED
654 655	YES YES	JARRAH JARRAH	60 70	MATURE/SEN MATURE/SEN		MOSTLY UPPER MOSTLY UPPER
656	YES	JARRAH	30	REGROWTH		MIXED
657	YES	GAP	0	GAP		MOSTLY UPPER
658	NO	GAP	0	GAP		MOSTLY UPPER
659 660	NO YES	GAP JARRAH	0 70	GAP MATURE/SEN		GAP MOSTLY UPPER
661	YES	JARRAH	70 70	MATURE/SEN		MOSTLY UPPER
662	YES	MARRI	40	REGROWTH		MIXED
663	YES	JARRAH	70	MATURE/SEN		MIXED
664	NO VES	GAP MARRI	0 40	GAP REGROWTH		MIXED
665 666	YES YES	JARRAH	50	REGROWTH		MIXED MIXED
667	YES	JARRAH	50	REGROWTH		MOSTLY UPPER
668	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
669	YES	JARRAH	70 70	MATURE/SEN		MOSTLY UPPER
670 671	YES YES	JARRAH MARRI	70 20	MATURE/SEN REGROWTH		MOSTLY UPPER MOSTLY LOWER
672	YES	JARRAH	80	MATURE/SEN		MOSTLY UPPER
673	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
674	YES	MARRI	110	MATURE/SEN		MOSTLY UPPER MIXED
675 676	YES YES	JARRAH JARRAH	30 50	REGROWTH MATURE/SEN		MOSTLY UPPER
677	YES	MARRI	50	REGROWTH		MIXED
678	NO	GAP	0	GAP		MIXED
679 680	YES	JARRAH GAP	60 0	MATURE/SEN GAP		MOSTLY UPPER MOSTLY LOWER
681	NO NO	GAP	0	GAP		MOSTLY LOWER
682	YES	MARRI	30	REGROWTH		MIXED
683	YES	JARRAH	50	REGROWTH		MIXED
684 685	YES YES	JARRAH JARRAH	50 30	REGROWTH REGROWTH		MIXED MIXED
686	YES	JARRAH	90	MATURE/SEN		MOSTLY UPPER
687	NO	GAP	0	GAP		MOSTLY LOWER
688	YES	JARRAH	40	REGROWTH		MIXED
689 690	YES YES	JARRAH JARRAH	60 70	MATURE/SEN MATURE/SEN		MOSTLY UPPER MOSTLY UPPER
691	YES	MARRI	40	REGROWTH		MIXED
692	NO	GAP	0	GAP		MOSTLY LOWER
693	YES	JARRAH	50	MATURE/SEN		MIXED
694 695	NO NO	GAP GAP	0 0	GAP GAP		MIXED GAP
696	YES	JARRAH	30	REGROWTH		MOSTLY UPPER
697	YES	JARRAH	50	REGROWTH		MOSTLY UPPER
698	YES	JARRAH	50	REGROWTH		MIXED
699 700	NO NO	GAP GAP	0 0	GAP GAP		MOSTLY LOWER MOSTLY LOWER
701	NO	GAP	0	GAP	FIRE IMPACTED AREA	
702	NO	GAP	0	GAP	FIRE IMPACTED AREA	
703	NO	GAP	0	GAP		MOSTLY LOWER
704 705	YES YES	JARRAH JARRAH	50 50	REGROWTH REGROWTH		MIXED MOSTLY UPPER
706	YES	JARRAH	20	REGROWTH		MOSTLY LOWER
707	NO	GAP	0	GAP		MIXED
708	YES	MARRI	80	MATURE/SEN		MOSTLY UPPER
709 710	NO YES	GAP JARRAH	0 60	GAP MATURE/SEN		MOSTLY LOWER MIXED
710	NO	GAP	0	GAP		MIXED
712	YES	JARRAH	40	REGROWTH		MIXED
713	NO	GAP	0	GAP		MIXED
714	YES	JARRAH	40	REGROWTH		MIXED

Area 3 - canopy sampling results

FID	CANOPY	SPECIES	DBH	DEVELOPMENT	DISTURBANCE	QUALITATIVE
715	YES	JARRAH	60	MATURE/SEN		MOSTLY UPPER
716	NO	GAP	0	GAP		MOSTLY LOWER
717	YES	JARRAH	50	REGROWTH		MOSTLY UPPER
718	YES	MARRI	70	MATURE/SEN		MOSTLY UPPER