



VICFORESTS PRE-LOGGING FAUNA SURVEYS 2011

SUMMARY OF RESULTS

PACKAGE 7

Report 1

Swifts Creek - Cann River - Bendoc

WILDLIFE UNLIMITED PTY LTD

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Survey Methods

Tracks and traces transects

Target Species: Long-footed Potoroo, Koala, large forest owls, Spot-tailed Quoll, Spiny Crayfish.

Tracks and traces transects were conducted along habitat corridors such as vegetated gullies with the aim of locating owl roosts and potoroo/bandicoot diggings. Transects of at least 500m were conducted at each coupe. Relevant findings were photographed and coordinates recorded. Scats and pellets were collected for analysis if encountered.

Transects targeting Spiny Crayfish were not conducted if creeks were dry, but cray holes were photographed and coordinates recorded when found within coupes. Searches for burrows and individuals in water pools and beneath rocks were conducted where possible.

Remote cameras

Cameras (Scoutguard & Moultrie passive infra-red) were maintained *in situ* for a minimum of 20 days, which is regarded as being a suitable timeframe to guarantee a 90% chance of species detection. Cameras were photographed *in situ* and coordinates and time of deployment recorded. Effort was combined for some coupes that were small and in close geographical proximity, ie, two cameras were deployed per coupe rather than the usual four

TARGET SPECIES:

Spot-tailed Quoll

Two camera traps were deployed at each coupe. Sites of habitat significance for Spot-tailed Quoll (large logs, riparian verges, rocky areas) were selected if present. Bait holders containing fish baits were pinned to the ground for attracting predators such as quolls.

Long-footed Potoroo

Two camera traps was deployed at each coupe. Sites of habitat significance for Long-footed Potoroo, such as gullies with suitable thick vegetation were selected if present. Bait baskets were set up to contain a bait mixture (peanut butter, oats and pistachio oil) suitable for attracting omnivores such as bandicoots and potoroos.

Spotlighting and call playback

Target Species: Powerful Owl, Sooty Owl, Masked Owl, Greater Glider, Yellow-bellied Glider, all frogs

A minimum of 1km/1hr spotlighting was conducted along road/track corridors adjacent to each coupe, which may have included some distance on either side of the coupe boundary. Species and coordinates were recorded for each observation. Playback locations and spotlight transects were combined for some coupes due to close geographical proximity

The spotlighting transects included:

- an on-dusk 15 min listening period initiated at dusk
- a 20 min playback session of Powerful, Boobook, Sooty and Masked Owls
- a 1km/1hr spotlighting transect by 2 observers.

Results

Table 1 Summary of surveys and significant results for package 7 coupes in the Swifts Creek, Cann River and Bendoc districts; X, no significant species detected; P, potoroo; O, owl; G, glider; B, bandicoot; shaded, not applicable.

District	Coupe No	Coupe Name	Tracks-Traces	Playback	Spotlight	Cameras	Camera No	Comments
Swifts Creek	779-502-0017	Ferntree East	X	X	G	X	4	
Swifts Creek	779-502-0026	Ferntree West	X	X	X	X	4	
Cann River	871-505-0011	Goody	P/B	G	G	B	4	
Cann River	871-506-0002	Pyramid Creek Coupe	X	G	G	X	4	
Cann River	885-512-0002	Ramble on				X	1 (LFP)	Repeat from pkg 6
Bendoc	890-504-0013	Warnies Troubles	X	G	G, O	B	4	
Bendoc	895-507-0007	Bees Knees	X	X	G	X	4	
Bendoc	895-509-0004	Waeco	X	X	X	B	2	
Bendoc	895-509-0006	Bert	X	X	X	B	2	
Bendoc	895-510-0007	Ranger	P/B	X	G	B	4	

Tracks and Traces Transects

Table 2 Results of tracks and traces recorded for package 7 coupes in the Swifts Creek, Cann River and Bendoc districts.

Coupe No.	Coupe Name	Date	Surveyers	Observations	Easting	Northing	Comments
779-502-0017	Ferntree East	30.8.11	AC, KD	nil			Dry silvertop, stringybark with bracken understorey at high elevation, damp forest with grey gum, blanket-leaf, currant bush, vines and ferns at lower elevation
779-502-0026	Ferntree West	30.8.11	AC, KD	nil			Dry silvertop, stringybark with bracken understorey at high elevation, damp forest with grey gum, blanket-leaf, currant bush, vines and ferns at lower elevation
871-505-0011	Goody	23.8.11	MC, AC*	Small mammal dig 7cm deep Many hollow bearing trees and cherry ballarts - suitable habitat/ roost trees Large patch of Gahnia conical dig 20cm deep mammal dig 20cm deep	677914 677990 678265 678334 678392	5851603 5851363 5851220 5850927 5850889	Mixed age forest. Stringybark, silvertop, grey gum and lightwood (flowering). Wet vegetation (gahnia) in gullies Creeks ranged from trickle to fast running water with rocks and puddles - suitable crayfish habitat
871-506-0002	Pyramid Creek Coupe	24.8.11	MC, AC*	Dear tracks Large boulders and fallen logs - suitable quoll habitat	677215	5850318	Mixed age dry sclerophyll, grey gum, stringybark, cherry ballarts, blanket-leaf
890-504-0013	Warnies Troubles	13.9.11	AC, SS	Number of Forest Geebung Number of Forest Geebung on edge of logged area	661207 661307 661415	5873301 5873296 5873179	Shining gum, Box species, Peppermint species, Tree ferns, Fern understorey
895-507-0007	Bees Knees	12.9.11	MC, SS	Forest Geebung Forest Geebung x2 Many large fallen logs suitable for quoll dens	663433 663340	5884167 5884221	Mixed age dry woodland, messmate, silver wattle, pomaderris, fern gullies, prickly currant bush midstorey
895-509-0004	Waeco	13.9.11	KD, MC	Large hollow-bearing trees Forest Geebung	663990	5886603	Mixed woodland/damp forest - blanket leaf, musk daisy bush, leucopogon, forest geebung midstorey, Prickly currant bush, ferns, bracken understorey.
895-509-0006	Bert	12.9.11	MC, SS	Forest Geebung - many more throughout coupe	664294	5886059	Mixed woodland/damp forest - blanket leaf, musk daisy bush, leucopogon, forest geebung midstorey, Prickly currant bush, ferns, bracken understorey.
895-510-0007	Ranger	12.9.11	AC, KD	Conical digging 8cm wide/deep Shining gum Forest geebung x2	663775 663775 663856	5887763 5887763 5887747	Areas of dense musk daisy bush/blanket-leaf understorey interspersed by open woodland. Shining gum and peppermint species.
Bold, threatened species/interesting observations							

Figure 1. Photos of significant observations noted during tracks and traces surveys. Small mammal diggings at Goody (A-C) and Ranger (D).



Remote Cameras

Table 3 Remote camera results for package 7 coupes in the Swifts Creek and Cann River districts.

Coupe No.	Coupe Name	Surveyers	Date deployed	Target sp.	Easting	Northing	Effective days in operation	Species identified	
779-502-0017	Ferntree East	AC, KD	30.8.11	Quoll	584806	5863963	27	Lyrebird	
									Wombat
			30.8.11	Potoroo	584519	5863919	27	Lyrebird	
									Brushtail Possum
			30.8.11	Potoroo	584326	5863963	27	Lyrebird	
									Rattus species
							Brushtail Possum		
							Swamp Wallaby		
							Grey Shrike Thrush		
			30.8.11	Quoll	584326	5864163	25	Cat	
								Wombat	
779-502-0026	Ferntree West	AC, KD	30.8.11	Quoll	582909	5864079	27	Swamp Wallaby	
									Lyrebird
									Wombat
			30.8.11	Quoll	583077	5863878	27	Lyrebird	
									Brushtail Possum
									Swamp Wallaby
							Rattus species		
			30.8.11	Potoroo	583125	5863678	27	Lyrebird	
			30.8.11	Potoroo	582831	5863379	27	nil	
871-505-0011	Goody	MC, AC*	23.8.11	Quoll	677914	5851603	31	Lyrebird	
									Rattus species
									Echidna
									Bassian Thrush
			23.8.11	Potoroo	678078	5851279	31	Lyrebird	
									Bassian Thrush
									Echidna
									Swamp Wallaby
									Brushtail Possum
									Grey Shrike Thrush
			23.8.11	Potoroo	678242	5851035	31	Long-nosed Bandicoot	
									Swamp Wallaby
						Brushtail Possum			
23.8.11	Quoll	678539	5850991	31	Brushtail Possum				
						Wombat			
						Long-nosed Bandicoot			
						Swamp Wallaby			
871-506-0002	Pyramid Creek Coup	MC, AC*	24.8.11	Potoroo	676756	5850623	29	Lyrebird	
									Wonga Pigeon
									Brushtail Possum
									Bassian Thrush
			24.8.11	Quoll	676875	5850292	29	Swamp Wallaby	
									Wonga Pigeon
						Brushtail Possum			
						Kookaburra			
			24.8.11	Quoll	677215	5850318	29	Wombat	
			24.8.11	Potoroo	677338	5850085	29	Wombat	
885-512-0002	Ramble on	MC, AC*	22.8.11	Potoroo	672196	5860528	31	Rattus species	
								Pied Currawong	
								Brushtail Possum	

Bold, threatened species/interesting observations

Table 4 Remote camera results for package 7 coupes in the Bendoc district.

Coupe No.	Coupe Name	Surveyers	Date deployed	Target sp.	Easting	Northing	Effective days in operation	Species identified
890-504-0013	Warnies Troubles	AC, SS	13 9.11	Quoll	661257	5873327	22	White-browed Scrubwren
								Brushtail Possum
								Rattus species
								Lyrebird
			13 9.11	Potoroo	661563	5873469	22	Antechinus species
								Swamp Wallaby
								Rattus species
								Bassian Thrush
			13 9.11	Potoroo	661486	5873220	22	Brushtail Possum
								Bassian Thrush
								Rattus species
								Antechinus species
13 9.11	Quoll	661314	5873083	22	Lyrebird			
					Rattus species			
					Common Bronzewing			
					Cat			
895-507-0007	Bees Knees	MC, SS	12 9.11	Quoll	663231	5883821	24	Rattus species
								Grey Shrike Thrush
			12 9.11	Potoroo	663208	5883995	24	Brushtail Possum
								Rattus species
			12 9.11	Quoll	663448	5884166	24	Lyrebird
								Grey Shrike Thrush
12 9.11	Potoroo	663074	5884093	24	Crimson Rosella			
					Cat			
895-509-0004	Waeco	KD, MC	13 9.11	Potoroo	664056	5886388	23	Long-nosed Bandicoot
								Lyrebird
			13 9.11	Quoll	663923	5886803	23	Rattus species
								Lyrebird
895-509-0006	Bert	MC, SS	12 9.11	Quoll	664238	5885877	24	Rattus species
								Cat
								Echidna
			12 9.11	Potoroo	664248	5886207	24	Brushtail Possum
								Swamp Wallaby
								Deer
12 9.11	Potoroo	664248	5886207	24	Wombat			
					Brushtail Possum			
					Currawong species			
895-510-0007	Ranger	AC, KD	12 9.11	Quoll	663853	5887772	24	Long-nosed Bandicoot
								Lyrebird
								Blackbird
								Cat
			12 9.11	Potoroo	663760	5887638	24	Bassian Thrush
								Rattus species
								Brushtail Possum
								Lyrebird
			12 9.11	Potoroo	663742	5887381	24	Crimson Rosella
								Cat
								Lyrebird
								Echidna
12 9.11	Quoll	663572	5887254	24	Swamp Wallaby			
					European rabbit			
					Bassian Thrush			
					Brushtail Possum			
12 9.11	Quoll	663572	5887254	24	Swamp Wallaby			
					Lyrebird			
					Wombat			
					Long-nosed Bandicoot			
12 9.11	Quoll	663572	5887254	24	Lyrebird			
					Cat			
					Wombat			
					Echidna			
12 9.11	Quoll	663572	5887254	24	Brushtail Possum			
					Brushtail Possum			

Bold, threatened species/interesting observations

Call Playback and Spotlighting

Table 5 Results of call playback surveys for package 7 coupes in the Swifts Creek, Cann River and Bendoc districts.

Coupe No.	Coupe Name	Date	Surveyers	Coords E/N	Dusk listen results	Est. position	Playback Results	Est. position	Comments
779-502-0017	Ferntree East	26.9.11	KD, AS	584417/5864190	NA		Boobook Owl	300m E	
779-502-0026	Ferntree West	26.9.11	KD, AS	582796/5864308	Boobook Owl	50m NW	Boobook Owl Boobook Owl	200m S 500m N	
871-505-0011	Goody	22.8.11	MC, AC*	677801/5851855	Boobook Owl	100m, 100°	Boobook Owl Yellow-bellied Glider Boobook Owl	50m, 50° 200m, 30°	
871-506-0002	Pyramid Creek Coupe	22.8.11	MC, AC*	676621/5850247	NA		Boobook Owl Fantailed Cuckoo Yellow-bellied Glider	200m, 20° 200m NW 300m NE	
890-504-0013	Warnies Troubles	13.9.11	AC, SS	660975/5873417	NA		Yellow-bellied Glider Boobook Owl Boobook Owl Boobook Owl Yellow-bellied Glider	600m NW 800m ENE 300m S 600m NNE 200m ENE	
895-507-0007	Bees Knees	12.9.11	MC, SS	663263/5883713	E. Yellow robin Pied Currawong Lyrebird		Boobook Owl Boobook Owl	300m E 200m NW	
895-509-0004	Waeco	12.9.11	AC, KD	664077/5885690	NA		Boobook Owl	50m NE	Effort combined for Waeco/Bert/Ranger due to close proximity
895-509-0006	Bert						Boobook Owl	100m NE	
895-510-0007	Ranger						Boobook Owl Boobook Owl	1km ESE 100m ESE	
Bold , threatened species/interesting observations									

Table 6 Results of spotlighting surveys for package 7 coupes in the Swifts Creek, Cann River and Bendoc districts.

Coupe No.	Coupe Name	Date	Surveyers	Start coords	End coords	Transect distance	Results	Easting	Northing	Est. position	Comments
779-502-0017	Ferntree East	26.9.11	KD, AS	584413/5864194	585122/5863862	949m	Ringtail Possum Yellow-bellied Glider Yellow-bellied Glider Brush-tail Possum	584854 584955 585101 585101	5864050 5864005 5863875 5863875	20m E 20m E 50m E 20m SE	
779-502-0026	Ferntree West	26.9.11	KD, AS	582806/5864306	582573/5863667	929m	Brush-tail Possum unidentified possum Boobook Owl	582580 582578 582591	5864186 5864168 5868978	20m S 20m S 40m S	small, inside tree hollow
871-505-0011	Goody	22.8.11	MC, AC*	677658/5851777	677796/5852011	1km	Sugar Glider microbat Yellow-bellied Glider Shining Bronze Cuckoo Boobook Owl Yellow-bellied Glider	677658 677802 677802 677796 677796	5851777 5851855 5851855 5852011 5852011	200m 80° 200m 50° 200m 120° 200m 30° 100m 50°	
871-506-0002	Pyramid Creek Coup	22.8.11	MC, AC*	676601/5850324	677125/5850059	1km	Boobook Owl Boobook Owl Yellow-bellied Glider Sugar Glider Yellow-bellied Glider Owlet Nightjar Shining Bronze Cuckoo	676519 676609 676671 676810 677067 677067 677101	5850122 5850094 5850083 5850023 5849983 5849983 5849964	100m, 270° 200m, 60° 200m, 320° 100m N 100m, 180° 150m, 30° 50m, 180°	
890-504-0013	Warnies Troubles	13.9.11	AC, KD	661054/5873304	661198/5873286	339m	Yellow-bellied Glider Sooty Owl Greater Glider Sugar Glider Greater Glider	661095 661135 661162 661162 661162	5873287 5873286 5873319 5873319 5873319	100m NE 40m SSE 30m NE 50m E 30m N	Perched in tree in logged area Made 'trill' call x3 times
895-507-0007	Bees Knees	12.9.11	MC, SS	663488/5883680	662855/5883958	1km	Greater Glider Greater Glider Yellow-bellied Glider Greater Glider	663377 663377 662979 662979	5883721 5883721 5884006 5884006	5m N 5m S 5m S 5m N	
895-509-0004	Waeco	12.9.11	AC, KD	664077/5885690	663825/5886587	1km	Mt. Brush-tail Possum	664012	5886013	20m N	Effort combined for Waeco/Bert due to close proximity
895-509-0006	Bert										
895-510-0007	Ranger	12.9.11	AC, KD	663344/5887137	663827/5887963	1km	Yellow-bellied Glider Boobook Owl	663650 663650	5887817 5887817	100m SE 800m SE	
Bold, threatened species/interesting observations											

Appendix 1 Diurnal birds recorded for package 7 coupes in the Swifts Creek, Cann River and Bendoc districts

Diurnal birds	779-502-0017	779-502-0026	871-505-0011	871-506-0002	890-504-0013	895-507-0007	895-509-0004	895-509-0006	895-510-0007
Brown Gerigone									
Brown Thornbill	X	X	X	X	X	X	X	X	X
Crescent Honeyeater	X	X							
Crimson Rosella	X				X				
Eastern Yellow Robin				X		X	X		X
Eastern Whipbird	X	X	X	X	X	X			X
Fan-tailed Cuckoo	X	X	X	X	X				
Flame Robin					X				
Gang Gang Cockatoo			X		X				X
Golden Whistler	X		X		X	X	X		X
Grey Fantail			X	X		X			
Grey Shrike Thrush			X	X	X	X			X
Horsfields Bronze Cuckoo									
King Parrot			X						
Kookaburra	X		X	X	X	X		X	X
Lewins Honeyeater	X	X	X	X			X	X	
Olive-backed Oriole			X						
Pied Currawong	X	X	X	X			X	X	X
Pilotbird	X	X			X				X
Pink Robin									X
Red Wattle Bird	X		X	X	X				X
Rose Robin	X				X				X
Satin Bowerbird									
Scarlet Robin									
Shining Bronze Cuckoo				X	X				
Spotted Pardalotte	X		X		X	X	X		X
Striated Pardalotte									
Striated Thornbill	X	X	X						X
Sulphur-crested Cockatoo					X		X	X	
Superb Blue Wren			X		X				
Superb Lyrebird	X	X	X	X	X	X	X	X	X
Thornbill sp.									
White-backed Magpie					X				
White-browed Scrubwren	X		X	X		X	X	X	
White-naped Honeyeater	X	X			X				X
White-throated Treecreeper	X	X		X	X	X		X	X
Wonga Pigeon			X	X					
Yellow-faced Honeyeater		X			X				X
Yellow-tailed Black Cockatoo	X				X				