

Final Report

Pre-harvest Fauna Surveys for 17 Coupes (Package 17), East Gippsland, Victoria

Prepared for

VicForests

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1 INTRODUCTION

1.1 Background

Ecology and Heritage Partners Pty Ltd was engaged by VicForests to undertake Pre-harvest Fauna Surveys for 17 Coupes (Package 17) in East Gippsland, Victoria.

1.2 Scope and Objectives

The objectives of the project were to:

- Undertake fauna surveys as per VicForests' *Pre-Harvest Fauna Survey Procedure v. 1.6*;
- Document all recorded fauna, methodology and survey conditions; and,
- Prepare reports for VicForests detailing the results of the surveys.

1.3 Study Area

The seventeen coupes are located in the East Gippsland Forest Management Area (FMA), comprising:

- Cann River: 4 coupes
 - 868-506-0009 Granton Road
 - 868-507-0003 Group Therapy
 - 871-501-0024 Good Times
 - 885-515-0004 Virus
- Nowa Nowa: 2 coupes
 - 810-501-0006 Sea Mist
 - 810-506-0003 Frog Hop
- Orbost: 11 coupes
 - 827-501-0021 Silly Billy
 - 827-501-0022 Fire Exit
 - 827-501-0026 Tick
 - 827-515-0006 Downhill Dreaming
 - 832-501-0026 Jamaica
 - 832-511-0009 Field of Dreams
 - 834-506-0009 Big Dude
 - 834-506-0010 Slingshot
 - 834-506-011 Catapult
 - 842-513-0052 Giant Panda
 - 843-507-0004 Misery Spur

2 METHODS

2.1 Nomenclature

The names of aquatic and terrestrial vertebrate and invertebrate fauna follow the VBA (DELWP 2015).

2.2 Desktop Assessment

Relevant literature, online-resources and numerous databases were reviewed to provide an assessment of fauna values associated with the study area. The following information sources were reviewed:

- The VBA (DELWP 2015) and Atlas of Victorian Wildlife (AVW) (Viridans 2014) for previously documented fauna records within the project locality; and,
- Relevant biological and ecological literature pertaining to the target species.

2.3 Field Surveys

2.3.1 Coupe Survey Requirements

All field surveys were undertaken by [REDACTED], [REDACTED] and [REDACTED] from Ecology and Heritage Partners Pty Ltd, in accordance with VicForests' *Pre-Harvest Fauna Survey Procedure (v. 1.6)*. The survey requirements for the current project were supplied by VicForests and are detailed in Plate 1 (below).

Plate 1. VicForests' survey requirements for the current project.

East Gippsland Package 17 Survey Requirements												
District	Coupe Number	Coupe Name	TRP Staus	Date Coupe Required	Coupe Gross Area (Ha)	Remote Survey Camera (#)	Spotlight Survey	Call Playback Survey	Walking Transect	Active Riparian Search (if appropriate)	Comments to Contractor	
Nova Nova	810-501-0006	Sea Mist	Approved TRP	31/10/2015	41.6	4	1	1	1	1	Approximately 4kms from Frog Hop coupe below (810-506-0003). Boundary is located within ~700 mts of Running Creek Tk (coupe access is not via a formed road surface). Camera deployment @ 2 x LFP & 2 x STQ	
	810-506-0003	Frog Hop	Approved TRP	31/10/2015	38.94	4	1	1	1	1	Approximately a 23 km drive from Buchan township. Coupe is located within ~1 km of Tulloch Ard Rd (coupe access is not via a formed road surface). Camera deployment @ 2 x LFP & 2 x STQ	
Orbost	827-501-0021	Silly Billy	Approved TRP	31/10/2015	21.3	3	1	1	1	1	Approximately a 19 km drive from Orbost township. Coupe is located directly adjacent to Mount Watt Tk. Subjected to wildfire activity in 2014. Shared camera deployment with Fire Exit (827-501-0022) below @ 2 x LFP & 1 x STQ	
	827-501-0022	Fire Exit	Approved TRP	31/10/2015	19.2		0	0	1	0	0	Immediately adjacent to Silly Billy coupe above (827-501-0021). Subjected to wildfire activity in 2014. Shared camera deployment with Silly Billy (827-501-0021) above @ 2 x LFP & 1 x STQ. Coupes are contiguous and therefore spot lighting, call playback and riparian searches may be shared, if circumstances are conducive in the field
	827-501-0026	Tick	Proposed TRP	31/10/2015	45.7	4	1	1	1	1	Approximately 6 kms from Fire Exit coupe above (827-501-0022). Directly adjacent to Cooney Ridge Rd. Salvage coupe subjected to wildfire activity in 2014. Camera deployment @ 2 x LFP & 2 x STQ	
	827-515-0006	Downhill Dreaming	Approved TRP	31/10/2015	27	4	1	1	1	1	Approximately 800 mts from Tick coupe above (827-501-0026). Directly adjacent to Eleven Bob Tk & Old Bonang Hwy. Subjected to wildfire activity in 2014. Camera deployment @ 2 x LFP & 2 x STQ	
	832-501-0026	Jamaica	Proposed TRP	31/10/2015	42.3	4	1	1	1	1	Approximately a 19 km drive from Murrungowar Checking Station/Picnic Area (Princes Hwy). Coupe is located within ~500 mts of Douthat Tk (coupe access is not via a formed road surface). May also find access through THB coupes to the south from Towzer Ck Tk. Camera deployment @ 2 x LFP & 2 x STQ	
	832-511-0009	Field Of Dreams	Approved TRP	31/10/2015	19	4	1	1	1	1	Approximately a 4.5 km drive from Cabbage Tree township. Coupe is located directly adjacent to Princes Hwy & Emphields Tk. Camera deployment @ 2 x LFP & 2 x STQ	
	834-506-0009	Big Dude	Proposed TRP	31/10/2015	25	3	1	1	1	1	1	Approximately a 4 km drive from intersection of Sydenham Inlet Rd & Princes Hwy. Coupe is located directly adjacent to Hippo Tk. Previously harvested coupe subjected to significant wind & storm damage. Shared camera deployment with Slingshot (834-506-0010) and Catapult (834-506-0011) below @ 2 x LFP & 1 x STQ. Call playback & spotlighting should be undertaken within modelled Old Growth polygon if practicable. Coupes are contiguous and therefore spot lighting, call playback and riparian searches may be shared, if circumstances are conducive in the field
	834-506-0010	Slingshot	Proposed TRP	31/10/2015	34.1		0	0	1	0	0	Approximately a 4 km drive from intersection of Sydenham Inlet Rd & Princes Hwy. Coupe is located within ~350 mts of Hippo Tk. Previously harvested coupe subjected to significant wind & storm damage. Shared camera deployment with Big Dude (834-506-0009) and Catapult (834-506-0011) @ 2 x LFP & 1 x STQ. Call playback & spotlighting should be undertaken within modelled Old Growth polygon if practicable. Coupes are contiguous and therefore spot lighting, call playback and riparian searches may be shared, if circumstances are conducive in the field
	834-506-0011	Catapult	Proposed TRP	31/10/2015	27.5		0	0	1	0	0	Approximately a 4 km drive from intersection of Sydenham Inlet Rd & Princes Hwy. Coupe is located directly adjacent to Hippo Tk. Previously harvested coupe subjected to significant wind & storm damage. Shared camera deployment with Big Dude (834-506-0009) and Slingshot (834-506-0010) above @ 2 x LFP & 1 x STQ. Call playback & spotlighting should be undertaken within modelled Old Growth polygon if practicable. Coupes are contiguous and therefore spot lighting, call playback and riparian searches may be shared, if circumstances are conducive in the field
	842-513-0052	Giant Panda	Approved TRP	31/10/2015	29.8	4	1	1	1	1	1	Approximately a 36 km drive from Murrungowar Checking Station/Picnic Area (Princes Hwy). Coupe is located directly adjacent to Jack Road. Camera deployment @ 2 x LFP & 2 x STQ
843-507-0004	Misery Spur	Approved TRP	31/10/2015	27	4	1	1	1	1	1	Approximately an 18 km drive from Club Terrace township. Directly adjacent to Teachers Tk. Where practicable in the field, incorporate survey application with a proposed Road Construction coupe (843-507-0020 - Misery Spur RDC) located to the north of the harvesting boundary. Road line access is located within previously harvested sites commencing on Teachers Tk. Camera deployment @ 2 x LFP & 2 x STQ	
Cann River	868-506-0009	Granton Road	Approved TRP	31/10/2015	50.7	4	1	1	1	1	Approximately a 12 km drive from intersection of Combiobar Rd & Princes Hwy. Coupe is located directly adjacent to Granton Ridge Tk. Camera deployment @ 2 x LFP & 2 x STQ	
	868-507-0003	Group Therapy	Approved TRP	31/10/2015	50.7	4	1	1	1	1	Approximately a 19 km drive from Cann River township. Boundary is located within 250 mts of Tonghi Swamp Tk along an unnamed track. Camera deployment @ 2 x LFP & 2 x STQ	
	871-501-0024	Good Times	Approved TRP	31/10/2015	34.3	4	1	1	1	1	Approximately 370 mts from Group Therapy coupe (868-507-0003) above. Coupe is located directly adjacent to Tonghi Swamp Tk. Camera deployment @ 2 x LFP & 2 x STQ	
	885-515-0004	Virus	Approved TRP	31/10/2015	44.4	4	1	1	1	1	Approximately an 11 km drive from Misery Spur coupe (843-507-0004) above. Coupe has been partially harvested during the 2013-14 period. Boundary is located within 1 km of Comp 515 Rd. Access can be gained from the bottom via an extension of Comp 515 Rd, and through a previously harvesting area (2009-10). The top section of the coupe may be reached through 2014-15 harvesting (885-515-0003). Camera deployment @ 2 x LFP & 2 x STQ	
Totals	17				578.54	54	14	14	17	14		

2.3.2 Remote Camera Surveys

Infra-red motion detector cameras targeting Spot-tailed Quoll *Dasyurus maculatus maculatus* and Long-footed Potoroo *Potorous longipipes* were strategically placed within suitable habitat for a minimum of 21 days. Cameras were positioned in areas of suitable micro-habitat for the target species and the focal point of the cameras was baited with species appropriate mixtures. Spot-tailed Quoll baits of chicken, sardines and tuna oil were secured to logs or trees. Long-footed Potoroo baits of a mixture of peanut butter, rolled oats, vanilla essence, pistachio nuts and honey, were caged in a plastic enclosure and pegged to the ground, and then sprayed with a vanilla essence solution. Cameras were placed so that the bait was in the focal point of the camera.

2.3.3 Spotlight Surveys

Two experienced personnel used 50 watt spotlights to survey for eye-shine or other evidence of fauna at night. Following detection binoculars were used to identify the animal to species level. Transects of one kilometre were completed within each coupe or along coupe boundaries where roads or tracks were present. Spotlight transects were shared, as directed by the survey requirements, where coupes were located adjacent to each other. All spotlight transects were a minimum of one hour in duration. Transect locations and sightings of fauna were recorded by GPS.

Weather and environmental conditions (e.g. temperature, wind speed, cloud cover and moon phase) was recorded at the commencement of each transect.

2.3.4 Call Playback

Call play-back was undertaken before each spotlighting transect. Call playback methodology followed the suggested VicForests procedures, using the full playback sequence for Powerful Owl *Ninox stenua*, Sooty Owl *Tyto tenebricosa*, Masked Owl *Tyto novaehollandiae* and Yellow-bellied Glider *Petaurus australis*. Calls were broadcast towards the centre of coupes through a hand-held megaphone (10-watt) to attract animals to the survey site or to elicit a call response. Two observers listened and looked for animals throughout the call playback period, and for at least 15 minutes following the call playback sequence. All species observed were recorded using GPS and bearing, and distance estimates were recorded for call responses.

In areas of suitable habitat, call playback for frogs was undertaken (between 2-5 cycles of an average call), followed by a 5 minute period of quiet listening. Target species included Large Brown Tree Frog *Litoria littlejohnii*, Giant Burrowing Frog *Heleioporus australiacus* and Southern Barred Frog *Mixophyes iteratus*.

2.3.5 Walking Transects

Walking transects during the day involved a strip transect of 400m x 50m following the VicForests procedures. Each transect was traversed by two observers who listened for vocalisations and used binoculars to scan for birds and mammals. The transect areas were searched for other general signs of fauna (Spot-tailed Quoll latrine sites or dens, bones, feathers, fur, scats, pellets, tracks, scratching, digging and incisions in the bark of trees left by Yellow-bellied Gliders).

2.3.6 Active Riparian Searches

Active searches were undertaken at waterways (creeks and drainage lines) in coupes where directed by the VicForests survey requirements. Searches targeted amphibians and crayfish, and were conducted by spotlighting at night within suitable habitat types with all species encountered and their life-stages recorded.

Weather conditions including temperature, wind speed, cloud cover and humidity were recorded. Active searches of riparian areas also utilised call playback for target frog species, in accordance with the methodology outlined above.

2.3.7 Opportunistic Sightings

Opportunistic sightings of significant species were also recorded.

2.4 Permits

Fauna surveys were conducted under the Ecology and Heritage Partners Pty Ltd research permit (#10005952) issued by DELWP under the *Wildlife Act 1975*.

3 RESULTS

A consolidated list of all fauna species recorded during these surveys with scientific names and conservation status is presented in Appendix 1. Photos of significant fauna species recorded on the remote cameras are presented in Appendix 2.

3.1 Remote Camera Results

Table 1. Remote camera results from Cann River District coupes.

Coupe ID and Name	Target Species	Date deployed	Trap Nights	Easting	Northing	Species Recorded
868-506-0009 Granton Road	LFP 30	30/09/2015	27	-37.55045	149.02827	Eastern Pygmy Possum~, Mountain Brushtail Possum, Common Wombat, Black Wallaby, Superb Lyrebird
	STQ 21	30/09/2015	27	-37.54895	149.03003	Black Wallaby, Feral Cat
	STQ 51	30/09/2015	27	-37.55133	149.03101	Mountain Brushtail Possum, Superb Lyrebird, Feral Cat
	LFP 1	30/09/2015	27	-37.55117	149.02981	nil – camera took approximately 3000 photos with no fauna detected
868-507-0003 Group Therapy	STQ 60	30/09/2015	27	-37.52650	149.01211	Lace Goanna~, Mountain Brushtail Possum, Black Wallaby, Superb Lyrebird, Pied Currawong, Eastern Yellow Robin, Feral Cat
	LFP 22	30/09/2015	27	-37.52715	149.01180	Long-footed Potoroo , Common Wombat, Mountain Brushtail Possum, Black Wallaby, Bush Rat, Superb Lyrebird, Wonga Pigeon, Crimson Rosella, Grey Shrike-thrush, Feral Cat
	STQ 16	30/09/2015	27	-37.53109	149.01413	Lace Goanna~, Spotted Quail-thrush~
	LFP 7	30/09/2015	27	-37.53003	149.01422	Black Wallaby, Superb Lyrebird
871-501-0024 Good Times	STQ 18	30/09/2015	27	-37.52227	149.01898	Lace Goanna (x2)~, Mountain Brushtail Possum, Echidna
	LFP 13	30/09/2015	27	-37.52357	149.01893	Mountain Brushtail Possum, Black Wallaby, Bush Rat, Superb Fairy-wren, Echidna
	STQ 4	30/09/2015	27	-37.51915	149.01843	Mountain Brushtail Possum, Black Wallaby, Common Wombat, Superb Lyrebird, Grey Shrike-thrush
	LFP 28	30/09/2015	27	-37.52103	149.01966	Black Wallaby, Bush Rat
885-515-0004 Virus	STQ 57	01/10/2015	26	-37.39202	148.97829	Long-footed Potoroo , Lace Goanna~, Common Wombat, Black Wallaby, Pied Currawong, Satin Bowerbird, Superb Lyrebird, Feral Cat

Coupe ID and Name	Target Species	Date deployed	Trap Nights	Easting	Northing	Species Recorded
	LFP 36	01/10/2015	26	-37.39212	148.97798	Long-footed Potoroo (x2) , Common Wombat, Black Wallaby, Superb Lyrebird
	STQ 25	01/10/2015	26	-37.39492	148.98395	Mountain Brushtail Possum, Common Wombat, Laughing Kookaburra
	LFP 24	01/10/2015	26	-37.39746	148.98324	Long-footed Potoroo , Black Wallaby, Superb Lyrebird, Bush Rat

Notes: **Bold** indicates significant species; 'x2' indicates two individuals were identified either by distinctive markings or by multiple individuals being present in the same photograph; ~ indicates species listed under FFG Act or on DEPI Advisory List.

Table 2. Remote camera results from Nowa Nowa District coupes.

Coupe ID an Name	Target Species	Date deployed	Trap Nights	Easting	Northing	Species Recorded
810-501-0006 Sea Mist	STQ 41	02/10/2015	28	-37.39195	148.28108	Black Wallaby, Mountain Brushtail Possum, Pied Currawong, Bush Rat, Superb Lyrebird, Echidna, Feral Cat
	LFP 9	02/10/2015	28	-37.39165	148.28147	Common Wombat, Black Wallaby, Mountain Brushtail Possum, Antechinus spp., Bush Rat, Superb Lyrebird, Wonga Pigeon, Scarlet Robin, Bassian Thrush, Echidna
	LFP 40	02/10/2015	28	-37.39237	148.27872	Black Wallaby, Superb Lyrebird
	STQ 53	02/10/2015	28	-37.39276	148.27757	nil – camera failure
810-506-0003 Frog Hop	LFP 20	02/10/2015	28	-37.38869	148.24727	Mountain Brushtail Possum, Bush Rat (x2), Superb Lyrebird, Echidna, Eastern Whipbird, Silvereye, Feral Cat
	STQ 43	02/10/2015	28	-37.38818	148.24708	Lace Goanna~, Superb Lyrebird
	STQ 2	02/10/2015	28	-37.38675	148.24547	Black Wallaby
	LFP 6	02/10/2015	28	-37.38771	148.24679	nil – camera failure

Notes: 'x2' indicates two individuals were identified either by distinctive markings or by multiple individuals being present in the same photograph; ~ indicates species listed under FFG Act or on DEPI Advisory List.

Table 3. Remote camera results from Orbost District coupes.

Coupe ID an Name	Target Species	Date deployed	Trap Nights	Easting	Northing	Species Recorded
827-501-0021 Silly Billy and 827-501-0022 Fire Exit	LFP 34	29/09/2015	30	-37.55120	148.47900	Long-footed Potoroo , Mountain Brushtail Possum, Bush Rat
	STQ 32	29/09/2015	30	-37.55442	148.48692	Long-footed Potoroo , Lace Goanna~, Mountain Brushtail Possum (x2), Superb Lyrebird, Wonga Pigeon, Pied Currawong
	LFP 3	29/09/2015	30	-37.55500	148.48967	Spotted Quail-thrush~, Common Wombat, Mountain Brushtail Possum (x2), Bush Rat, Pied Currawong, Satin Bowerbird, Superb Lyrebird, Wonga Pigeon
827-501-0026 Tick	STQ 23	29/09/2015	30	-37.58318	148.48699	Black Wallaby, Bush Rat
	LFP 39	29/09/2015	30	-37.58067	148.49152	Long-footed Potoroo , Mountain Brushtail Possum, Superb Lyrebird
	LFP 54	29/09/2015	30	-37.57937	148.49211	Long-footed Potoroo , Mountain Brushtail Possum, Common Wombat, Superb Lyrebird, Pilotbird, Thornbill sp., Bush Rat
	STQ 42	29/09/2015	30	-37.57910	148.49072	Long-footed Potoroo , Lace Goanna~, Scarlet Robin, Common Wombat, Superb Lyrebird, Echidna
827-515-0006 Downhill Dreaming	STQ 58	29/09/2015	30	-37.59129	148.48430	Common Wombat, Black Wallaby, Superb Lyrebird, Feral Cat
	LFP 44	29/09/2015	30	-37.59329	148.48836	Lace Goanna~, Wonga Pigeon, Superb Lyrebird
	LFP 26	29/09/2015	30	-37.58964	148.48541	Long-footed Potoroo , Mountain Brushtail Possum, Superb Lyrebird, Echidna, Pilotbird, White-browed Scrubwren, Bush Rat
	STQ 45	29/09/2015	30	-37.59836	148.48935	Long-nosed Bandicoot, Superb Lyrebird
832-501-0026 Jamaica	LFP 52	29/09/2015	29	-37.60773	148.72815	Long-footed Potoroo , Common Wombat, Black Wallaby, Mountain Brushtail Possum, Superb Lyrebird, Wonga Pigeon, Pied Currawong, Satin Bowerbird
	LFP 10	29/09/2015	29	-37.60605	148.72742	Long-footed Potoroo , Australian Owlet Nightjar, Lowland Copperhead
	STQ 11	29/09/2015	29	-37.60936	148.72562	Lace Goanna~, Common Wombat, Black Wallaby, Mountain Brushtail Possum, Superb Lyrebird, White-throated Treecreeper, Southern Water Skink, Skink sp., Feral Cat
	STQ 38	29/09/2015	29	-37.60796	148.72545	Long-footed Potoroo , Lace Goanna~, Common Wombat, Black Wallaby, Superb Lyrebird, Feral Cat
832-511-0009 Field of	LFP 19	30/09/2015	27	-37.68888	148.74333	Long-footed Potoroo , New Holland Honeyeater
	LFP 15	30/09/2015	27	-37.68935	148.74585	Long-footed Potoroo , Lace Goanna~,

Dreams						Superb Lyrebird, Pied Currawong, Echidna, Grey Shrike-thrush, Yellow-faced Honeyeater, Sambar
	STQ 14	30/09/2015	27	-37.68577	148.74435	Lace Goanna~, Black Wallaby, Superb Lyrebird, Pied Currawong
	STQ 12	30/09/2015	27	-37.68813	148.74949	Lace Goanna~, Common Wombat (x2), Black Wallaby, Pied Currawong, Bush Rat, Echidna, Yellow-faced Honeyeater
834-506-0009 Big Dude and 834-506-0010 Slingshot and 834-506-011 Catapult	LFP 29	30/09/2015	27	-37.67572	148.81763	Long-nosed Bandicoot, Black Wallaby, Antechinus sp., Superb Lyrebird, Superb Fairy-wren, Bassian Thrush, Eastern Yellow Robin, White-browed Scrubwren
	LFP 27	30/09/2015	27	-37.68017	148.82180	Black Wallaby, Bush Rat, Echidna, Grey Shrike-thrush
	STQ 17	30/09/2015	27	-37.68061	148.82086	Lace Goanna~, Common Wombat, Black Wallaby, Echidna, Superb Lyrebird (x3), Pied Currawong
842-513-0052 Giant Panda	LFP 56	29/09/2015	30	-37.47392	148.69325	Long-footed Potoroo , Black Wallaby, Bush Rat, Pied Currawong, Superb Lyrebird, White-throated Treecreeper, White-browed Scrubwren
	STQ 35	29/09/2015	30	-37.47358	148.69312	Long-footed Potoroo , Mountain Brushtail Possum, Common Wombat, Bush Rat
	STQ 31	29/09/2015	30	-37.47505	148.70389	Long-footed Potoroo (x2) , Lace Goanna~, Black Wallaby, Common Wombat, Mountain Brushtail Possum, Echidna, Bush Rat, Skink spp., White-browed Scrubwren, Pilotbird, Wild Dog, Feral Cat
	LFP 59	29/09/2015	30	-37.47377	148.70267	Long-footed Potoroo , Black Wallaby, Common Wombat, Mountain Brushtail Possum, Pied Currawong, Superb Lyrebird
843-507-0004 Misery Spur	LFP 8	01/10/2015	26	-37.41847	148.93970	Long-footed Potoroo , Long-nosed Bandicoot, Black Wallaby (x2), Common Wombat, Mountain Brushtail Possum, Bush Rat, Pied Currawong, Crimson Rosella, Superb Lyrebird
	STQ 37	01/10/2015	26	-37.41625	148.93980	Long-footed Potoroo , Long-nosed Bandicoot, Black Wallaby, Bush Rat, Common Wombat, Antechinus sp., Crimson Rosella, Pied Currawong, Superb Lyrebird, Red-browed Treecreeper, Grey Fantail, Grey Shrike-thrush
	STQ 33	01/10/2015	26	-37.41912	148.93979	Bush Rat
	LFP 55	01/10/2015	26	-37.42084	148.93816	Long-footed Potoroo , Common Wombat, Mountain Brushtail Possum, Black Wallaby, Bush Rat, Common Wombat, Antechinus sp., Crimson Rosella, Superb Lyrebird, Grey Shrike-thrush

Notes: **Bold** indicates significant species; 'x2' indicates two individuals were identified either by distinctive markings or by multiple individuals being present in the same photograph; ~ indicates species listed under FFG Act or on DEPI Advisory List.

3.2 Spotlight, Call Playback and Active Riparian Search Survey Results

Table 4. Weather Conditions and Survey Times for Spotlight, Call Playback and Active Riparian Search Surveys.

Coupe ID	Coupe Name	Date	Time	Temp.	Moon	Wind	Cloud
Nowa Nowa District							
810-501-0006	Sea Mist	29/10/2015	20:30-22:00	15	3/3	2	1
810-506-0003	Frog Hop	29/10/2015	23:00-00:30	17	3/3	1	1
Cann River District							
868-506-0009	Granton Road	27/10/2015	23:00-01:00	12	3/3	1	1
868-507-0003	Group Therapy	30/09/2015	21:00-22:30	8	3/3	1	1
871-501-0024	Good Times	30/09/2015	19:00-20:40	8	3/3	1	1
885-515-0004	Virus	01/10/2015	19:30-22:00	6	3/3	1	1
Orbost District							
827-501-0021	Silly Billy	28/09/2015	21:40-22:50	15	3/3	4	2
827-501-0022	Fire Exit						
827-501-0026	Tick	28/09/2015	23:00-00:20	13	3/3	2	8
827-515-0006	Downhill Dreaming	28/09/2015	20:00-21:20	16	3/3	2	4
832-501-0026	Jamaica	29/09/2015	19:00-21:40	16	3/3	1	1
832-511-0009	Field of Dreams	26/10/2015	20:30-22:00	13	3/3	2	8 – light rain during spotlight
834-506-0009	Big Dude	26/10/2015	22:20-23:45	13	3/3	1	5
834-506-0010	Slingshot						
834-506-0011	Catapult						
842-513-0052	Giant Panda	28/10/2015	21:30-23:00	15	3/3	2	1
843-507-0004	Misery Spur	27/10/2015	20:30-22:00	12	3/3	1	2

Notes: Wind uses Beaufort Scale; Temperature in degrees Celsius; Moon = amount full; Cloud cover in Oktas from 1-8. Data for adjacent coupes surveyed in the same spotlight survey have been combined.

Table 5. Spotlight, Call Playback and Active Riparian Search Results – Nowa Nowa District Coupes.

Coupe ID	Coupe Name	Feature	Species Recorded	Latitude	Longitude
810-501-0006	Sea Mist	Call Playback	No response	-37.39268	148.27749
		Start Spotlight Transect		-37.39535	148.27513
		End Spotlight Transect		-37.39185	148.28170
		Active Riparian Search	No fauna recorded	-37.39126	148.27849
		Fauna	Mountain Brushtail Possum	-37.39200	148.28045
810-506-0003	Frog Hop	Call Playback	Southern Boobook (x2), Sugar Glider (x2)	-37.38675	148.24570
		End Spotlight Transect		-37.38952	148.24476

Coupe ID	Coupe Name	Feature	Species Recorded	Latitude	Longitude
		Start Spotlight Transect		-37.38604	148.24317
		Fauna	Mountain Brushtail Possum	-37.38897	148.24672

Notes: **Bold** indicates significant species.

Table 6. Spotlight, Call Playback and Active Riparian Search Results – Cann River District Coupes.

Coupe ID	Coupe Name	Feature	Species Recorded	Latitude	Longitude
868-506-0009	Granton Road	Call Playback	Four Southern Boobook heard during call playback	-37.55122	149.02951
		Start Spotlight Transect		-37.55117	149.03231
		End Spotlight Transect		-37.54663	149.02761
		Active Riparian Search	Common Froglet, Southern Leaf-green Tree Frog, Southern Brown Tree Frog	-37.55126	149.03231
		Fauna	Yellow-bellied Glider	-37.55053	149.02843
868-507-0003	Group Therapy	Call Playback	Two Southern Boobook heard during call playback	-37.52679	149.01531
		Start Spotlight Transect		-37.52692	149.01507
		End Spotlight Transect		-37.52812	149.01220
		Active Riparian Search	No fauna recorded	-37.52896	149.01588
		Fauna	Yellow-bellied Glider	-37.52743	149.01529
		Fauna	Sugar Glider	-37.52962	149.01447
871-501-0024	Good Times	Call Playback	One Southern Boobook heard during call playback	-37.51755	149.01840
		Start Spotlight Transect		-37.51748	149.01836
		End Spotlight Transect		-37.52408	149.01810
		Active Riparian Search	No fauna recorded	-37.51861	149.01992
885-515-0004	Virus	Call Playback	No response	-37.39441	148.98363
		Start Spotlight Transect		-37.39383	148.98279
		End Spotlight Transect		-37.39531	148.98169
		Active Riparian Search	No fauna recorded	-37.39660	148.98189
		Fauna	Yellow-bellied Glider	-37.39690	148.98280
		Fauna	Yellow-bellied Glider	-37.39702	148.98430

Notes: **Bold** indicates significant species.

Table 7. Spotlight, Call Playback and Active Riparian Search Results – Orbost District Coupes.

Coupe ID	Coupe Name	Feature	Species Recorded	Latitude	Longitude
827-501-0021 and 827-501-0022	Silly Billy and Fire Exit	Call Playback	Southern Boobook	-37.55310	148.48242
		Active Riparian Search	Common Froglet	-37.55173	148.47833
		Start Spotlight Transect		-37.55165	148.47852
		End Spotlight Transect		-37.55486	148.48936
827-515-0006	Downhill Dreaming	Call Playback	Southern Boobook	-37.59355	148.48881
		Active Riparian Search	No fauna recorded	-37.59349	148.48872
		Start Spotlight Transect		-37.59268	148.48767
		End Spotlight Transect		-37.59971	148.48726
832-511-0009	Field of Dreams	Call Playback	No response	-37.68542	148.74695
		Start Spotlight Transect		-37.68499	148.74129
		End Spotlight Transect		-37.68707	148.75122
		Active Riparian Search	No fauna recorded	-37.68961	148.74446
		Fauna	Yellow-bellied Glider	-37.68942	148.74383
842-513-0052	Giant Panda	Call Playback	Sooty Owl - called from approx. 100-200m to southeast, did not fly in or respond to further call playback, not found on subsequent spotlight search. Two Tawny Frogmouth and two Southern Boobook heard during call playback.	-37.47237	148.70148
		Start Spotlight Transect		-37.47506	148.68961
		End Spotlight Transect		-37.47208	148.70171
		Active Riparian Search	No fauna recorded	-37.47570	148.69005
		Fauna	Yellow-bellied Glider	-37.47480	148.68954
		Fauna	Yellow-bellied Glider	-37.47468	148.68972
		Fauna	Sugar Glider	-37.47518	148.68974
		Fauna	Sugar Glider	-37.47472	148.69061
843-507-0004	Misery Spur	Call Playback	Three Southern Boobook heard during call playback	-37.42050	148.93915

Coupe ID	Coupe Name	Feature	Species Recorded	Latitude	Longitude
		Start Spotlight Transect		-37.42084	148.93784
		End Spotlight Transect		-37.41658	148.93901
		Active Riparian Search	NA - no waterways within coupe.	-	-
		Fauna	Sugar Glider	-37.42004	148.93950
832-501-0026	Jamaica	Call Playback	No response	-37.60818	148.72612
		Start Spotlight Transect		-37.60938	148.72544
		End Spotlight Transect		-37.61264	148.72849
		Fauna	Yellow-bellied Glider	-37.60923	148.72428
		Fauna	Yellow-bellied Glider	-37.60839	148.72769
		Fauna	Yellow-bellied Glider	-37.60740	148.72753
		Fauna	Yellow-bellied Glider	-37.60718	148.72791
		Fauna	Yellow-bellied Glider	-37.60767	148.72917
		Fauna	Mountain Brushtail Possum	-37.61184	148.72867
Active Riparian Search	Common Froglet	-37.61301	148.72827		
834-506-0011 and 834-506-0009 and 834-506-0010	Catapult and Big Dude and Slingshot	Call Playback	Three Southern Boobook and one Sugar Glider heard during call playback	-37.68061	148.82242
		Active Riparian Search	Common Froglet, Southern Brown Tree Frog, Haswell's Froglet	-37.68006	148.82074
		Start Spotlight Transect		-37.67470	148.81854
		End Spotlight Transect		-37.68432	148.82122
827-501-0026	Tick	Call Playback	No response	-37.58362	148.48821
		Start Spotlight Transect		-37.58383	148.48615
		End Spotlight Transect		-37.57932	148.49096
		Active Riparian Search	NA - no waterways within coupe.	-	-

Notes: **Bold** indicates significant species (DSE 2013).

3.3 Walking Transect (Daytime) Survey Results

Table 6. Daytime Transect Results

Coupe ID	Coupe Name	Date	Fauna recorded
Nowa Nowa District			
810-501-0006	Sea Mist	28/09/2015	Laughing Kookaburra, Crescent Honeyeater, Gang Gang Cockatoo, Superb Lyrebird, Eastern Yellow Robin
810-506-0003	Frog Hop	28/09/2015	Superb Lyrebird, White-browed Scrubwren, Brown Thornbill, White-throated Treecreeper, Eastern Yellow Robin
Cann River District			
868-506-0009	Granton Road	27/10/2015	Superb Lyrebird, Grey Shrike-thrush, Brown Thornbill, Golden Whistler, White-eared Honeyeater, White-throated Treecreeper, Fan-tailed Cuckoo, Australian Raven, Lewin's Honeyeater, Scarlet Honeyeater, Brown Gerygone, Shining Bronze-cuckoo, Spotted Pardalote, Black-faced Monarch, Brush Cuckoo, Grey Fantail, Satin Bowerbird
868-507-0003	Group Therapy	30/09/2015	Laughing Kookaburra, White-throated Treecreeper, Superb Lyrebird, Pied Currawong, Spotted Pardalote, Satin Bowerbird
871-501-0024	Good Times	30/09/2015	Pied Currawong, Superb Lyrebird, Brown Thornbill, Crescent Honeyeater, Eastern Spinebill, Black-faced Cuckoo-shrike, Spotted Pardalote, White-throated Treecreeper
885-515-0004	Virus	01/10/2015	Pied Currawong, Laughing Kookaburra, Crimson Rosella, Gang Gang Cockatoo, White-throated Treecreeper, Brown Gerygone, Superb Lyrebird, Golden Whistler, King Parrot, Grey Fantail, Grey Shrike-thrush, Pilotbird, Spotted pardalote, Crescent Honeyeater
Orbost District			
827-501-0021	Silly Billy	29/09/2015	Pilotbird, Olive-backed Oriole, Satin Bowerbird, Black-faced Monarch, Lewin's Honeyeater, Yellow-faced Honeyeater, Brown Thornbill, King Parrot, Sulphur-crested Cockatoo, White-throated Treecreeper, Spotted Pardalote, Eastern Yellow Robin, Silvereye, Eastern Spinebill, Superb Fairy-wren, White-browed Scrubwren
827-501-0022	Fire Exit	29/09/2015	Pilotbird, Olive-backed Oriole, Satin Bowerbird, Lewin's Honeyeater, Yellow-faced Honeyeater, Brown Thornbill, King Parrot, Sulphur-crested Cockatoo, Cicadabird, White-throated Treecreeper, Spotted Pardalote, Eastern Yellow Robin, Silvereye, Eastern Spinebill, Musk Lorikeet, Superb Fairy-wren
827-501-0026	Tick	28/09/2015	Superb Lyrebird, Silvereye, Superb Fairy-wren, Gang Gang Cockatoo, Wonga Pigeon, Fan-tailed Cuckoo, Black-faced Cuckoo-shrike, Laughing Kookaburra, Grey Fantail, Eastern Yellow Robin
827-515-0006	Downhill Dreaming	28/09/2015	Superb Lyrebird, Pied Currawong, Spotted Pardalote, Silvereye, superb Fairy-wren, Gang Gang Cockatoo, Eastern Spinebill, Crimson Rosella, Wonga Pigeon
832-501-0026	Jamaica	29/09/2015	Superb Lyrebird, Eastern Whipbird, Pilotbird, Brown

Coupe ID	Coupe Name	Date	Fauna recorded
			Thornbill, White-browed Scrubwren, Yellow-tailed Black-Cockatoo, Crimson Rosella, Grey Fantail, Superb Fairy-wren, Wonga Pigeon
832-511-0009	Field of Dreams	26/10/2015	Brown Thornbill, Grey Shrike-thrush, Spotted Pardalote, Fan-tailed Cuckoo, White-eared Honeyeater, Australian Raven, Eastern Yellow Robin, Horsfield's Bronze-cuckoo, Eastern Whipbird, Scarlet Honeyeater, New Holland Honeyeater, Shining Bronze-cuckoo, Brush Cuckoo, Dusky Woodswallow, Welcome Swallow
834-506-0009	Big Dude	30/09/2015	Superb Lyrebird, Eastern Whipbird, Brown Thornbill, White-browed Scrubwren, Yellow-tailed Black-Cockatoo, Crimson Rosella, Grey Fantail, Superb Fairy-wren, Wonga Pigeon, Scarlet Robin, Grey Shrike-thrush, Lewin's Honeyeater, Eastern Yellow Robin, Satin Bowerbird
834-506-0010	Slingshot	30/09/2015	Red-bellied Black-snake, Olive-backed Oriole, Superb Lyrebird, White-browed Scrubwren, Yellow-tailed Black-Cockatoo, Crimson Rosella, Wonga Pigeon, Scarlet Robin, White-throated Treecreeper, White-eared Honeyeater, Golden Whistler, Grey Shrike-thrush, Silvereye, Eastern Spinebill, Lewin's Honeyeater
834-506-0011	Catapult	30/09/2015	Superb Lyrebird, Eastern Whipbird, Pilotbird, Brown Thornbill, White-browed Scrubwren, Yellow-tailed Black-Cockatoo, Grey Fantail, Superb Fairy-wren, Scarlet Robin, White-throated Treecreeper, White-eared Honeyeater, Golden Whistler, Grey Shrike-thrush, Silvereye, Satin Bowerbird
842-513-0052	Giant Panda	29/09/2015	King Parrot, Fan-tailed Cuckoo, Silvereye, Spotted Pardalote, White-browed Scrubwren, Pied Currawong, Eastern Yellow Robin, Superb Lyrebird, Pilotbird, Eastern Whipbird, Scarlet Honeyeater, Gang Gang Cockatoo, Yellow-tailed Black-Cockatoo, Wonga Pigeon, Grey Fantail, Satin Bowerbird
843-507-0004	Misery Spur	01/10/2015	Pied Currawong, White-throated Treecreeper, Brown Thornbill, Striated Thornbill, Crimson Rosella, Laughing Kookaburra, King Parrot, Superb Lyrebird, Crescent Honeyeater

Note: Daytime transects were undertaken in the area between the closest road and camera locations for each coupe – in all cases this achieved the minimum survey requirements.

3.4 Incidental Significant Fauna Sightings

Two Lace Goanna were incidentally recorded while driving between coupes at:

- -37.52387 / 149.00907
- -37.55218 / 149.00628

3.5 Summary of Significant Species Recorded

Long-footed Potoroo were recorded at 10 coupes:

- 868-507-0003 Group Therapy
- 885-515-0004 Virus
- 827-501-0021 Silly Billy and 827-501-0022 Fire Exit
- 827-501-0026 Tick
- 827-515-0006 Downhill Dreaming
- 832-501-0026 Jamaica
- 832-511-0009 Field of Dreams
- 842-513-0052 Giant Panda
- 843-507-0004 Misery Spur

A single Sooty Owl responded to call playback at 842-513-0052 Giant Panda (Orbost District).

Lace Goanna was recorded at 14 coupes:

- 868-507-0003 Group Therapy
- 871-501-0024 Good Times
- 885-515-0004 Virus
- 810-506-0003 Frog Hop
- 827-501-0021 Silly Billy and 827-501-0022 Fire Exit
- 827-501-0026 Tick
- 827-515-0006 Downhill Dreaming
- 832-501-0026 Jamaica
- 832-511-0009 Field of Dreams
- 834-506-0009 Big Dude and 834-506-0010 Slingshot and 834-506-011 Catapult
- 842-513-0052 Giant Panda

Spotted Quail-thrush was recorded at three coupes:

- 868-507-0003 Group Therapy
- 827-501-0021 Silly Billy and 827-501-0022 Fire Exit

Eastern Pygmy Possum was recorded at 868-506-0009 Granton Road.

Feral Cats were recorded at 10 out of 52 remote cameras.

REFERENCES

DELWP 2015. Victorian Biodiversity Atlas. Sourced from: "VBA_FAUNA25", "VBA_FAUNA100", October 2015. Victorian Department of Environment, Land, Water and Planning.

DSE 2013. Advisory List of Rare or Threatened Fauna in Victoria. Victorian Department of Sustainability and Environment.

Viridans 2014. Victorian Fauna Database. Viridans Biological Databases.

APPENDICES

Appendix 1 – Recorded Fauna

Table A1. All Fauna Species Recorded.

Common Name	Scientific Name	Status	Record Type
Mammals			
Antechinus spp.	<i>Antechinus spp.</i>	-	C
Black Wallaby	<i>Wallabia bicolor</i>	-	C
Bush Rat	<i>Rattus fuscipes</i>	-	C
Common Wombat	<i>Vombatus ursinus</i>	-	C, I
Eastern Pygmy Possum	<i>Cercartetus nanus</i>	DSE: NT	C
Echidna	<i>Tachyglossus aculeatus</i>	-	C
Feral Cat*	<i>Felis catus</i>	-	C, I
Long-footed Potoroo	<i>Potorous longipes</i>	EPBC:EN; FFG:L; DSE:VU	C, I
Long-nosed Bandicoot	<i>Perameles nasuta</i>	-	C
Mountain Brushtail Possum	<i>Trichosurus cunninghami</i>	-	C, S
Sambar*	<i>Rusa unicorn</i>	-	C
Sugar Glider	<i>Petaurus breviceps</i>	-	S
Wild Dog*	<i>Canis lupus familiaris</i>	-	C
Yellow-bellied Glider	<i>Petaurus australis</i>	-	S, CP
Reptiles and Amphibians			
Common Froglet	<i>Crinia signifera</i>	-	H
Haswell's Froglet	<i>Paracrinia haswelli</i>	-	H
Lace Goanna	<i>Varanus varius</i>	DSE: EN	C
Lowland Copperhead	<i>Austrelaps superbus</i>	-	C
Red-bellied Black Snake	<i>Pseudechis porphyriacus</i>	-	S
Southern Brown Tree Frog	<i>Litoria ewingii</i>	-	H
Southern Leaf-green Tree Frog	<i>Litoria nudidigita</i>	-	H
Southern Water Skink	<i>Eulamprus tympanum tympanum</i>	-	C
Birds			
Australian Owlet Nightjar	<i>Aegotheles cristatus</i>	-	C
Australian Raven	<i>Corvus coronoides</i>	-	T
Bassian Thrush	<i>Zoothera lunulata</i>	-	C
Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>	-	T
Black-faced Monarch	<i>Monarcha melanopsis</i>	-	T
Brown Gerygone	<i>Gerygone mouki</i>	-	S
Brown Thornbill	<i>Acanthiza pusilla</i>	-	T
Brush Cuckoo	<i>Cacomantis variolosus</i>	-	T

Common Name	Scientific Name	Status	Record Type
Cicadabird	<i>Coracina tenuirostris</i>	-	T
Crescent Honeyeater	<i>Phylidonyris pyrrhopterus</i>	-	T
Crimson Rosella	<i>Platycercus elegans</i>	-	T
Dusky Woodswallow	<i>Artamus cyanopterus</i>	-	T
Eastern Spinebill	<i>Acanthorhynchus tenuirostris</i>	-	T
Eastern Whipbird	<i>Psophodes olivaceus</i>	-	C
Eastern Yellow Robin	<i>Eopsaltria australis</i>	-	C
Fan-tailed Cuckoo	<i>Cacomantis flabelliformis</i>	-	T
Gang Gang Cockatoo	<i>Callocephalon fimbriatum</i>	-	T
Golden Whistler	<i>Pachycephala pectoralis</i>	-	T
Grey Butcherbird	<i>Cracticus torquatus</i>	-	C
Grey Fantail	<i>Rhipidura albiscapa</i>	-	T
Grey Shrike-thrush	<i>Colluricincla harmonica</i>	-	C, T
Horsfield's Bronze-cuckoo	<i>Chrysococcyx basalis</i>	-	T
King Parrot	<i>Alisterus scapularis</i>	-	T
Laughing Kookaburra	<i>Dacelo novaeguineae</i>	-	T
Lewin's Honeyeater	<i>Meliphaga lewinii</i>	-	T
Musk Lorikeet	<i>Glossopsitta concinna</i>	-	T
New Holland Honeyeater	<i>Phylidonyris novaehollandiae</i>	-	T
Olive-backed Oriole	<i>Oriolus sagittatus</i>	-	T
Pied Currawong	<i>Strepera graculina</i>	-	C, T
Pilotbird	<i>Pycnoptilus floccosus</i>	-	C, T
Red-browed Treecreeper	<i>Climacteris erythrops</i>	-	C
Satin Bowerbird	<i>Ptilonorhynchus violaceus</i>	-	T
Scarlet Honeyeater	<i>Myzomela sanguinolenta</i>	-	T
Scarlet Robin	<i>Petroica boodang</i>	-	T
Shining Bronze-cuckoo	<i>Chrysococcyx lucidus</i>	-	T
Silveryeye	<i>Zosterops lateralis</i>	-	T
Sooty Owl	<i>Tyto tenebricosa</i>	FFG:L; DSE:VU	H
Spotted Pardalote	<i>Pardalotus punctatus</i>	-	T
Spotted Quail-thrush	<i>Cinclosoma punctatum</i>	DSE: NT	C
Southern Boobook	<i>Ninox boobook</i>	-	H
Striated Thornbill	<i>Acanthiza lineata</i>	-	T
Superb Fairy-wren	<i>Malurus cyaneus</i>	-	T
Superb Lyrebird	<i>Menura novaehollandiae</i>	-	C, T
Welcome Swallow	<i>Hirundo neoxena</i>	-	T
White-browed Scrubwren	<i>Sericornis frontalis</i>	-	C

Common Name	Scientific Name	Status	Record Type
White-eared Honeyeater	<i>Lichenostomus leucotis</i>	-	T,
White-throated Treecreeper	<i>Cormobates leucophaea</i>	-	T
Wonga Pigeon	<i>Leucosarcia melanoleuca</i>	-	C
Yellow-tailed Black-cockatoo	<i>Calyptorhynchus funereus</i>	-	T

Notes: EPBC = Environment Protection and Biodiversity Conservation Act 1999; VU = Vulnerable; EN = Endangered; FFG = Flora and Fauna Guarantee Act; L = Listed; DSE = Department of Sustainability and Environment, Advisory List of Threatened Vertebrate Fauna in Victoria 2013; NT = Near Threatened; * = introduced species; I = Incidental Sighting; S = Spotlighting; C = Camera Trap Photograph; T = Transect Search; CP = Call-playback Response; H = Heard; O = Observed.

Appendix 2 – Remote camera photos



Plate 2. 868-507-0003 Group Therapy – Long-footed Potoroo



Plate 3. 868-506-0009 Granton Road – Eastern Pygmy Possum



Plate 4. 885-515-0004 Virus – Long-footed Potoroo (x2)



Plate 5. 827-501-0021 Silly Billy and 827-501-0022 Fire Exit – Long-footed Potoroo



Plate 6. 827-501-0026 Tick – Long-footed Potoroo



Plate 7. 827-515-0006 Downhill Dreaming – Long-footed Potoroo



Plate 8. 832-501-0026 Jamaica – Long-footed Potoroo



Plate 9. 832-511-0009 Field of Dreams – Long-footed Potoroo



Plate 10. 842-513-0052 Giant Panda – Long-footed Potoroo (x2)



Plate 11. 843-507-0004 Misery Spur – Long-footed Potoroo