



Border Track Committee (BTC)  
Ngarkat CP Track Survey  
4th and 5th June 2016



Task Report

**Ngarkat CP Track Survey, 4<sup>th</sup> and 5<sup>th</sup> June 2016**

**1**

**INTRODUCTION**

The second Ngarkat CP Track Survey was undertaken as a follow on activity to the September 2015 Ngarkat CP Track Survey which had surveyed tracks (broadly) in the western section of the Ngarkat CP (west of the Baan Hill Track).

After preliminary planning discussions with DEWNR Lamerloo staff it was agreed that a track survey of the central section of the Ngarkat CP be undertaken on the weekend of the 4<sup>th</sup> and 5<sup>th</sup> of June 2016. This central section of the Ngarkat CP is (broadly) located between the Baan Hill Track and the Pinnaroo to Bordertown Road and contains elements of the old McCallum block. It was also agreed that if time and resources allowed during the weekend that issue and anomalies arising from the previous survey would be reviewed or checked.

It was decided that the base camp would be at the Buck's Camp campground which is in the far south-west corner of the Ngarkat CP as that would be relatively close to the survey areas to be visited.

Preliminary planning, documentation and associated operating and safety procedures were put in place with the assistance of DEWNR with a comprehensive safety induction provided by DEWNR Lamerloo staff to the volunteer survey group team leader on Friday 3<sup>rd</sup> June 2016.

A total of 10 survey vehicles and 16 associated volunteers (with 1 child), all from the 4WD Adventurers Club, were present on the weekend of the 4<sup>th</sup> and 5<sup>th</sup> June 2016. Most arrived on the afternoon or evening of the preceding Friday with the last two arriving early on Saturday morning. The weather was cold with clear skies and heavy fog on the Saturday morning becoming fine and still in the afternoon. Cloud accumulated on the Sunday with light rain late on the Sunday afternoon as the last of the volunteers were leaving.

**2**

**TRACK SURVEY ACTIVITY**

**2.1**

**Track Survey Tasking & Progressing**

On the Saturday morning around 8:30am the volunteers were placed into five (5) groups with two vehicles per group for data redundancy and safety reasons. Safety aspects of the track survey were discussed along with a specific review of the DEWNR VSF Form 2 Risk Assessment. A leader for each of the groups was selected and each group was assigned an area to survey based on the historical mapping information provided by DEWNR. The survey co-ordinator gave specific briefings to each group regarding their survey area but generally each group was required to follow and record every accessible track in that section of the park whether it was a public track, management track or boundary track. In addition, it was also necessary to note the location and status of the commercial apiary (bee) sites in the park.

Group 1 (Darryl with Chris & Harry) surveyed the south-west section of the old McCallum block throughout the day with some interesting driving through the Mallee sand being escorted twice along the southern boundary track by a wayward lamb. An old car wreck was found at one point (UTM 462774E 6025127N). On the way back to camp some of the survey items from the first survey were re-visited to clarify questions raised by DEWNR resulting in an enjoyable drive along the southern boundary back to the far south-western entrance to the Ngarkat CP.

Group 2 (Mike B and Mike PS with Matt and Wayne) surveyed the south-east section of the old McCallum block throughout the day but had to return to camp in the evening with further surveying in that area to be undertaken on the Sunday.

Group 3 (Andrew with Russel and Lee) surveyed the north-west section of the old McCallum block throughout the day but similarly had to return to camp in the evening with further surveying in that area to be undertaken on the Sunday.

Group 4 (Ray with Amanda and Rory) surveyed the north-east section of the old McCallum block throughout the day and were able to complete the assigned survey tasks before returning to camp.

Group 5 (Kevin & Jenny with Rohan and Mitchell) surveyed sections along the western edge of the Pinnaroo to Bordertown road adjacent to the old McCallum block as well as the more northerly "Piggery Track" (a management track). To save time they returned to camp via the Duke's Highway and Snoswells Road.

By early evening all groups had returned and related interesting stories of the surveying events of the day including the "spooky" fog which persisted until almost midday.

On the Sunday morning Group 2 (Mike B and Mike PS with Matt and Wayne) and Group 3 (Andrew with Russel and Lee) returned to complete the surveying in their assigned areas. The other Groups were given tasks in the far south western of the Ngarkat CP (not far from the Bucks Camp campsite) relating to survey items from the first track survey in September 2015 which DEWNR required confirmation or clarification on. Group 5 (Kevin & Jenny) observed an agricultural type tractor on the Mt. Rescue track approximately 1 to 2 km from the Ngarkat CP far western boundary track, this appeared unusual.

As each group returned from their assigned activity for the day (which varied from around 11am to 5pm), they provided a final briefing of their surveying results and then they packed up and left as they saw necessary. By 6pm the last two vehicles (Andrew and Darryl) left the Ngarkat CP via the Snoswells Road exit just as the sun was setting and light rain began to fall.

## **2.2 Track Survey Problems**

No real problems were encountered during the weekend. All the groups were able to complete the survey their assigned tracks in the old McCallum Block.

The number of volunteers was well matched to the track survey to be undertaken and the survey was comfortably completed in the time available.

## **2.3 Track Survey Report, Images, Diagrams, Notes and Track GPS Data**

This report (Ngarkat\_Track\_Survey\_201606\_Report.docx) and the images, diagrams, notes and track GPS data referenced in this report are directly available from the data pack provided to DEWNR.

Images of volunteers and their vehicles at the Buck's Camp campground can be found at Annex A. They are also in the "Ngarkat\_Track\_Survey\_201606\_Images" folder in the data pack provided to DEWNR.

Diagrams related to the track survey areas and locations assigned to each of the groups and the resulting tracks found are shown at Annex B. They also in the "Ngarkat\_Track\_Survey\_201606\_Volunteer\_Map\_Tracks\_Found" folder in the data pack provided to DEWNR.

Notes (mainly relating to Track conditions and Bee Sites encountered) are provided at Annex C. These notes have been derived from the handwritten notes or spreadsheet data provided by the volunteers after the survey was completed. They also in the "Ngarkat\_Track\_Survey\_201606\_Volunteer\_Map\_and\_Bee\_Site\_Notes"

folder in the data pack provided to DEWNR. Unless a Bee Site is specifically mentioned in the notes it can be assumed that it was NOT found.

Detailed GPS data of the tracks driven in GPX file format was received from the volunteers after the survey was completed. The files were used to generate the coloured track overlay of "Tracks Found" in Annex B. They also in the "Ngarkat\_Track\_Survey\_201606\_Volunteer\_Track\_Data\_GPX" folder in the data pack provided to DEWNR.

Note that there is some overlap of the track and note data as vehicles sometimes transited across other survey sections not directly assigned to them.

A review of some of the issues identified from the first track survey in September 2015 is discussed in Annex D.

### **3 VOLUNTEER PARTICIPATION**

A total of 16 volunteers (with 1 child) from the 4WD Adventurers Club, a member club of Four Wheel Drive South Australia, took part in the track survey

#### **3.1 Work Effort**

A total of 212 hours of effort was provided (excluding travel time to Ngarkat) during the weekend (based on the VSF Volunteer Attendance record).

### **4 TRACK SURVEY SUMMARY**

#### **4.1 Observations**

1. A review of the Track Survey Maps in Annex B shows that many of the tracks on the existing map are no longer traversable (shown in **RED** on the map). A review of these tracks on recent Google Earth images confirms this.
2. A review of the Track Survey Maps in Annex B shows three tracks on the "Western" map that were sighted but not traversed due to time limitations, each of these was a short linear section of track (shown in **GREEN** on the map).
3. A review of the Track Survey Maps in Annex B shows a small number of new tracks were found, usually short (shown in **ORANGE** on the map).
4. A review of the Track Survey Maps in Annex B shows a number of tracks that were NOT recorded in the survey but appear to be possibly active from recent Google Earth images (these are shown in **BLACK** on the map).

#### **4.2 Recommendations**

1. As in the last survey, there is an opportunity to revisit the tracks that appear to have been missed (as in Observation 4 above) to fully complete the survey. A group of volunteers could complete that work at a convenient future date.

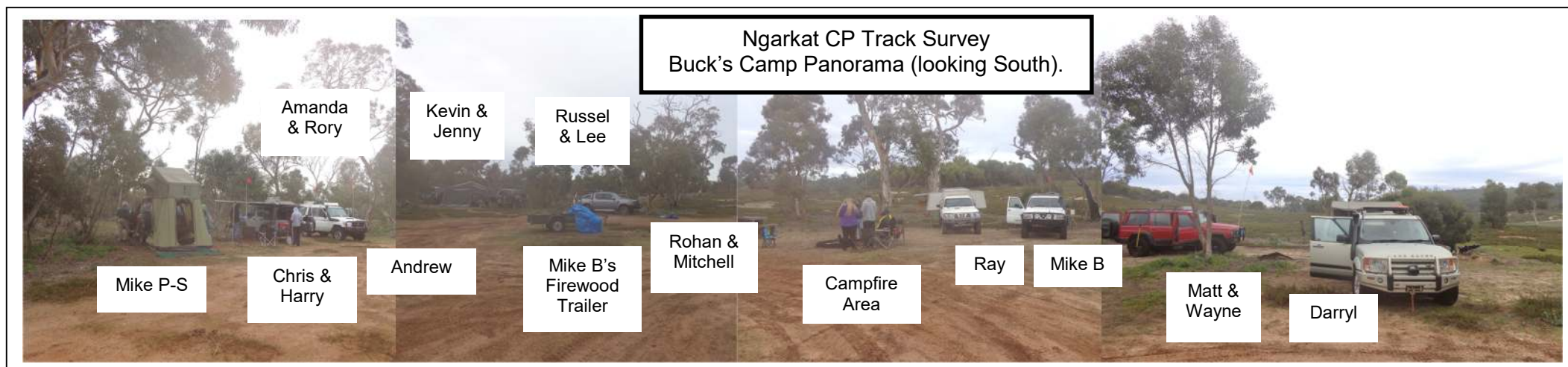
#### **4.3 Conclusion**

Overall the second Ngarkat CP track survey was largely completed successfully and the volunteers quite enjoyed the activity. As noted in the original track survey, the volunteers were keen to participate in any future survey activity.



Darryl McManus  
4WDSA, NRAU, BTC

### Task Photographs



### Bucks Camp Campground Panorama (Morning) – Looking South



### Bucks Camp Campground (Morning) - Looking North



## Track Survey Diagrams



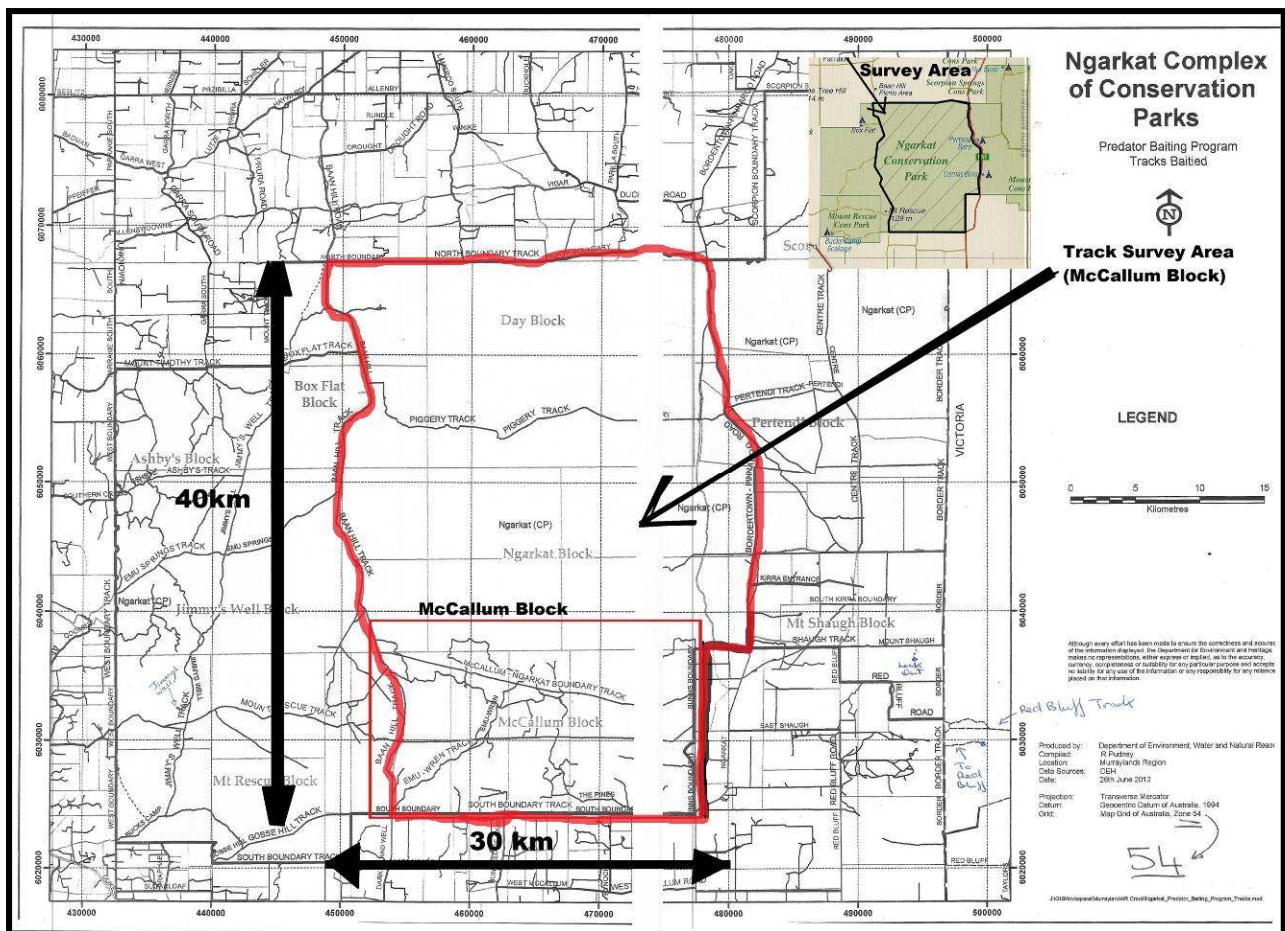
Location of Ngarkat CP just south of the Mallee Highway in South-East South Australia.



Track Survey Area in the Central part of Ngarkat CP.

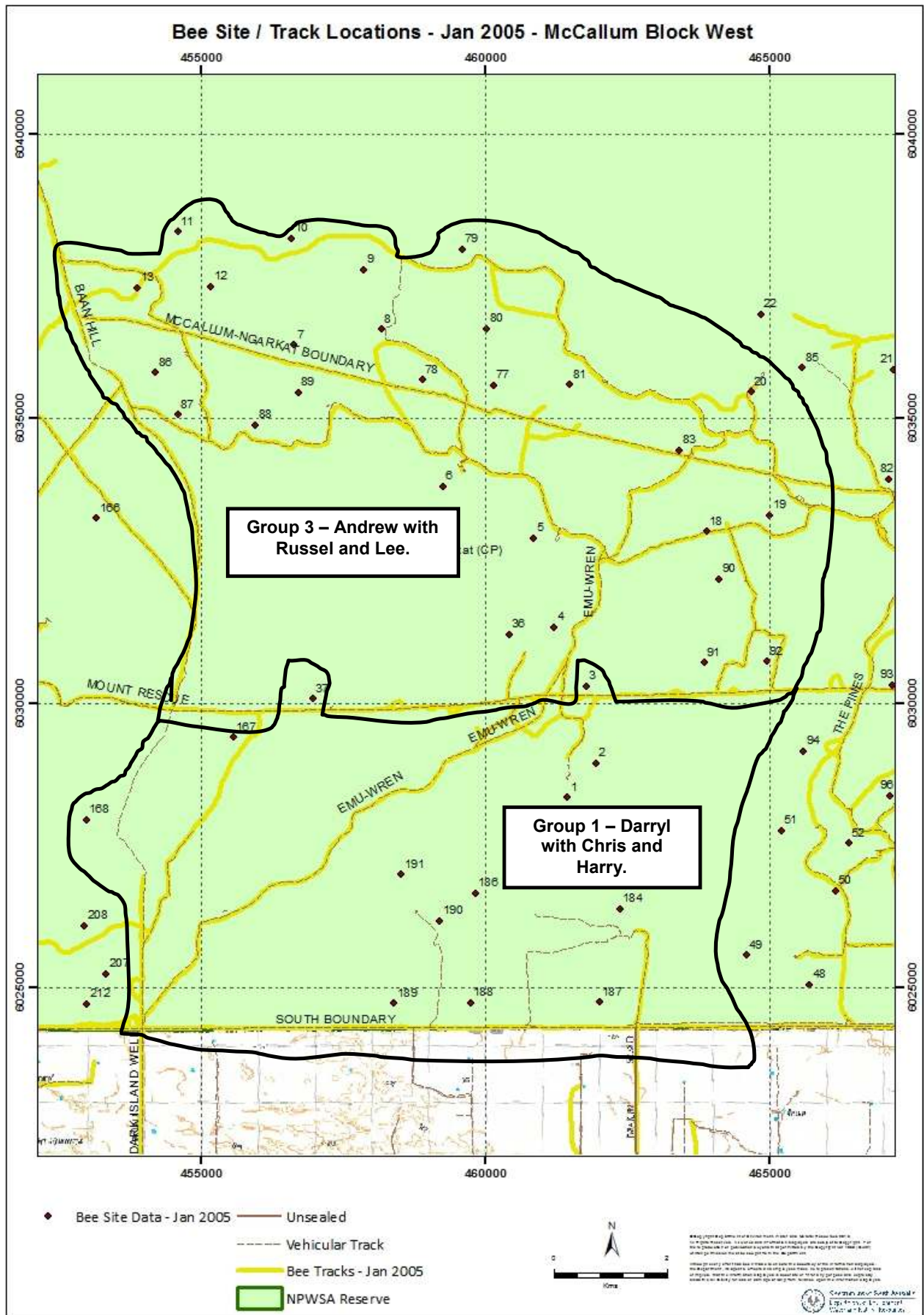


## Track Survey Diagrams



Track Survey Area in the Central part of Ngarkat CP – Detail with historically known tracks.

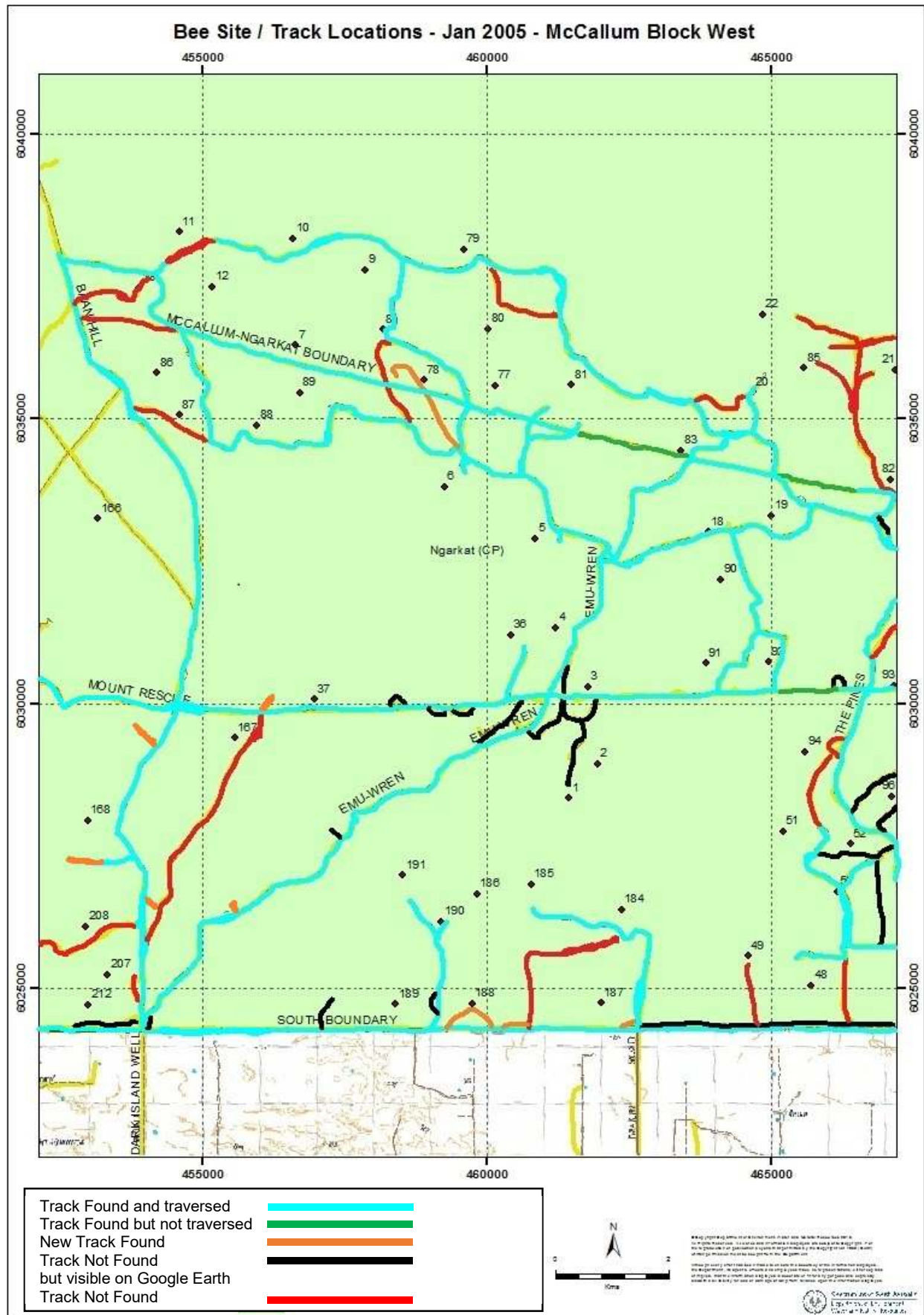
## Track Survey Diagrams



Track Survey Area Details for Group 1 and Group 3 in the western section of the old McCallum Block along with detailed historical tracks and bee sites.



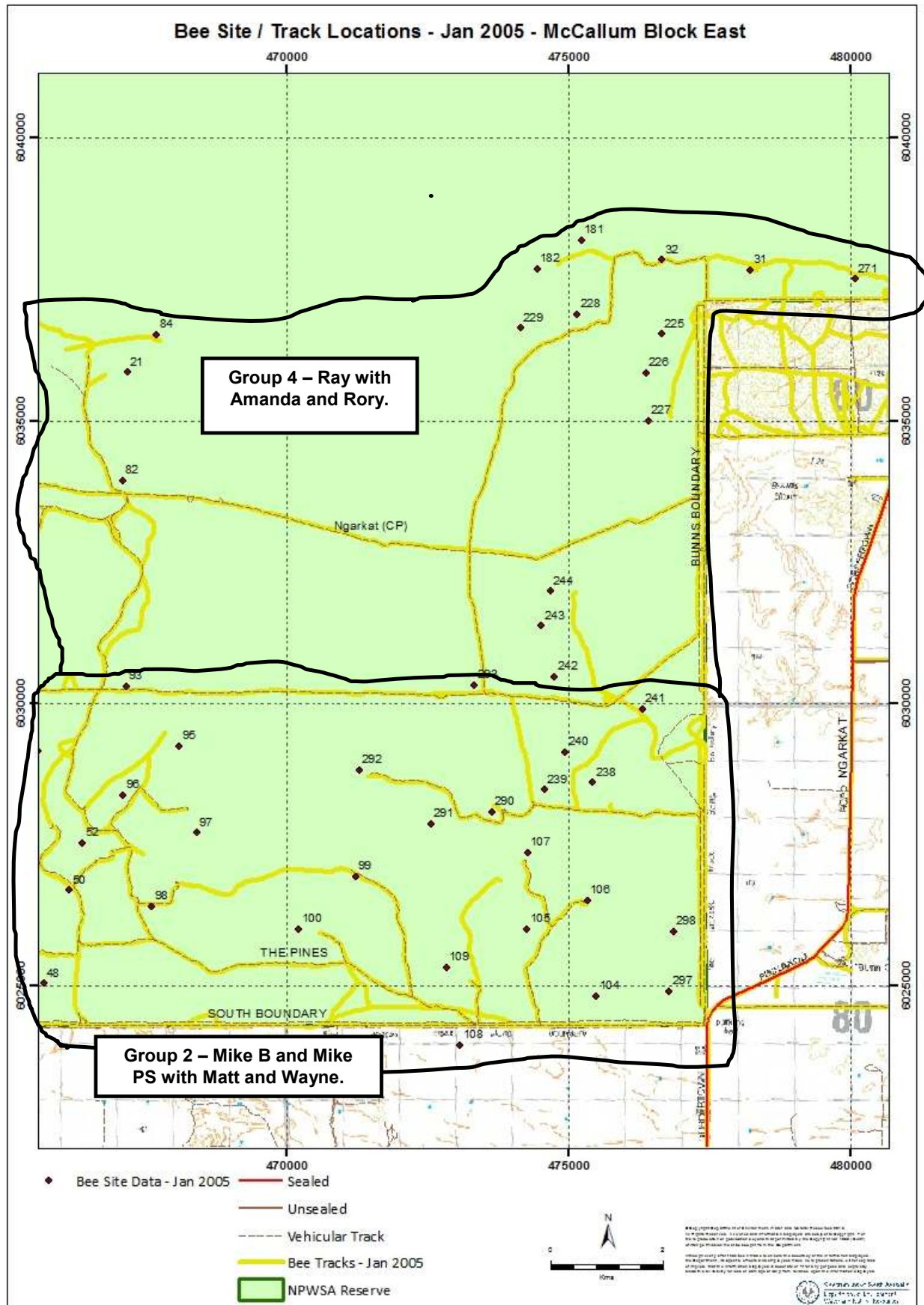
## Track Survey Diagrams



**Track Survey Area Details for Group 1 and Group 3 in the western section of the old McCallum Block with a coloured overlay showing which historical tracks were found.**

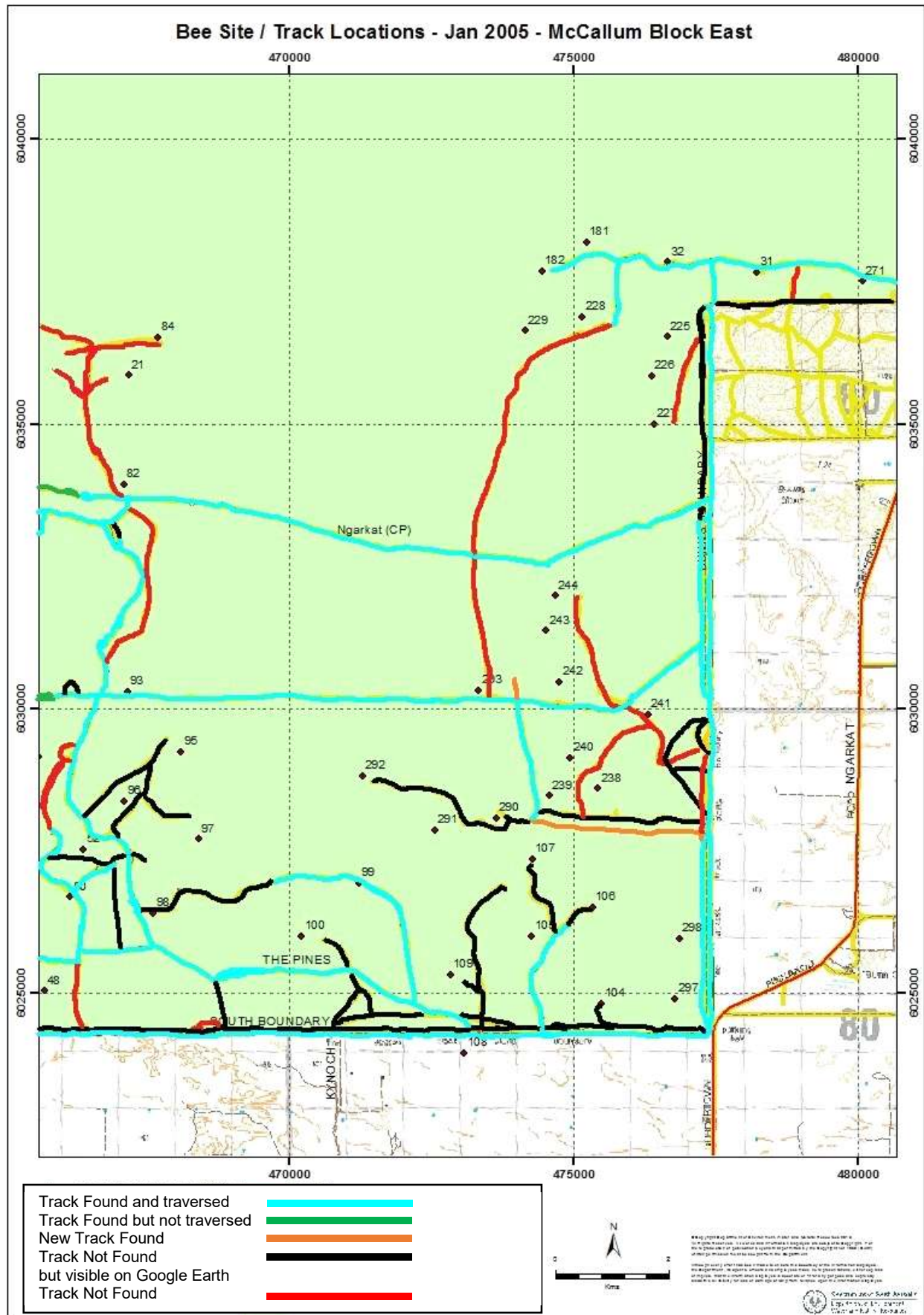


## Track Survey Diagrams



Track Survey Area Details for Group 2 and Group 4 in the eastern section of the old McCallum Block along with detailed historical tracks and bee sites.

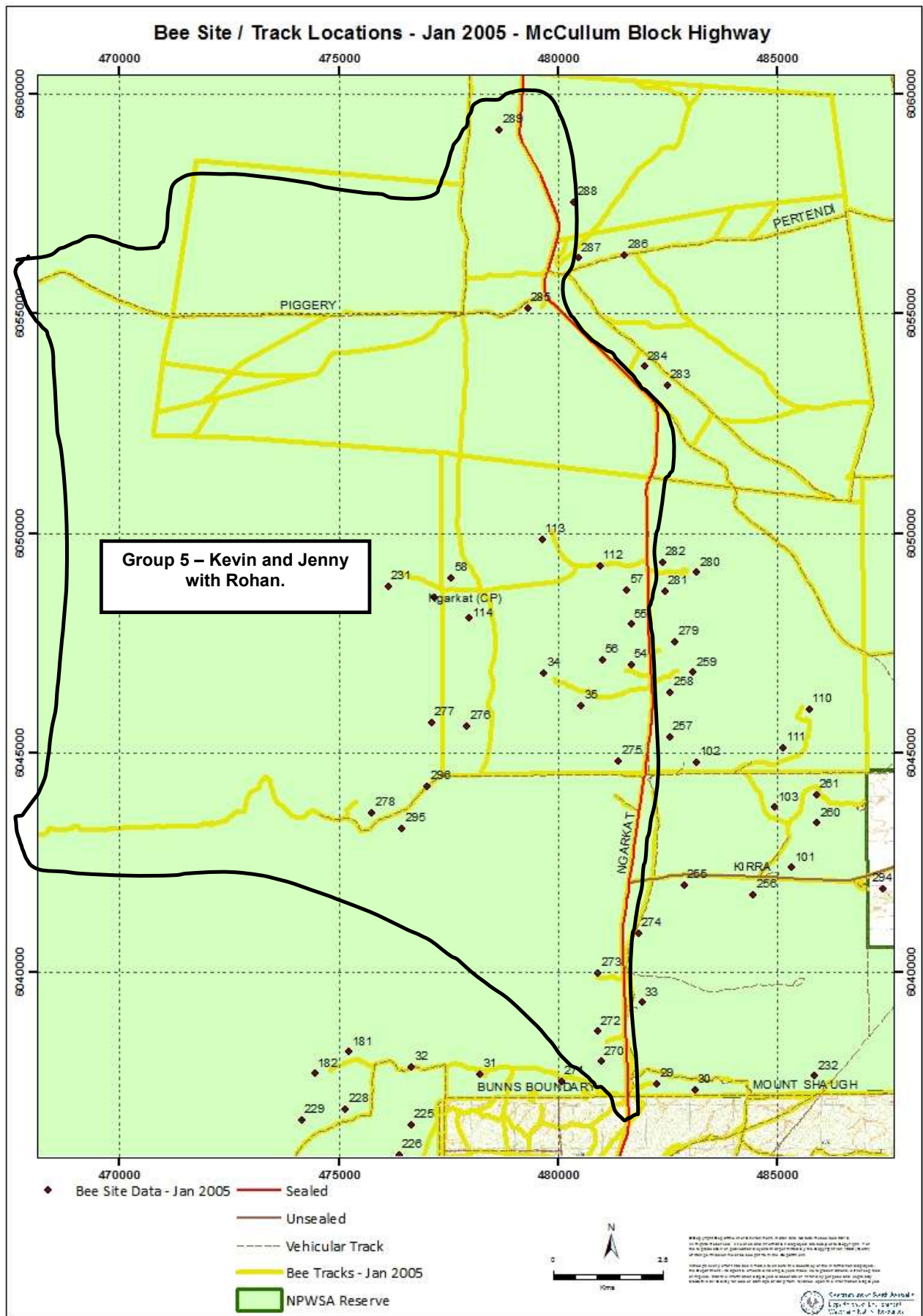
## Track Survey Diagrams



**Track Survey Area Details for Group 2 and Group 4 in the eastern section of the old McCallum Block with a coloured overlay showing which historical tracks were found.**



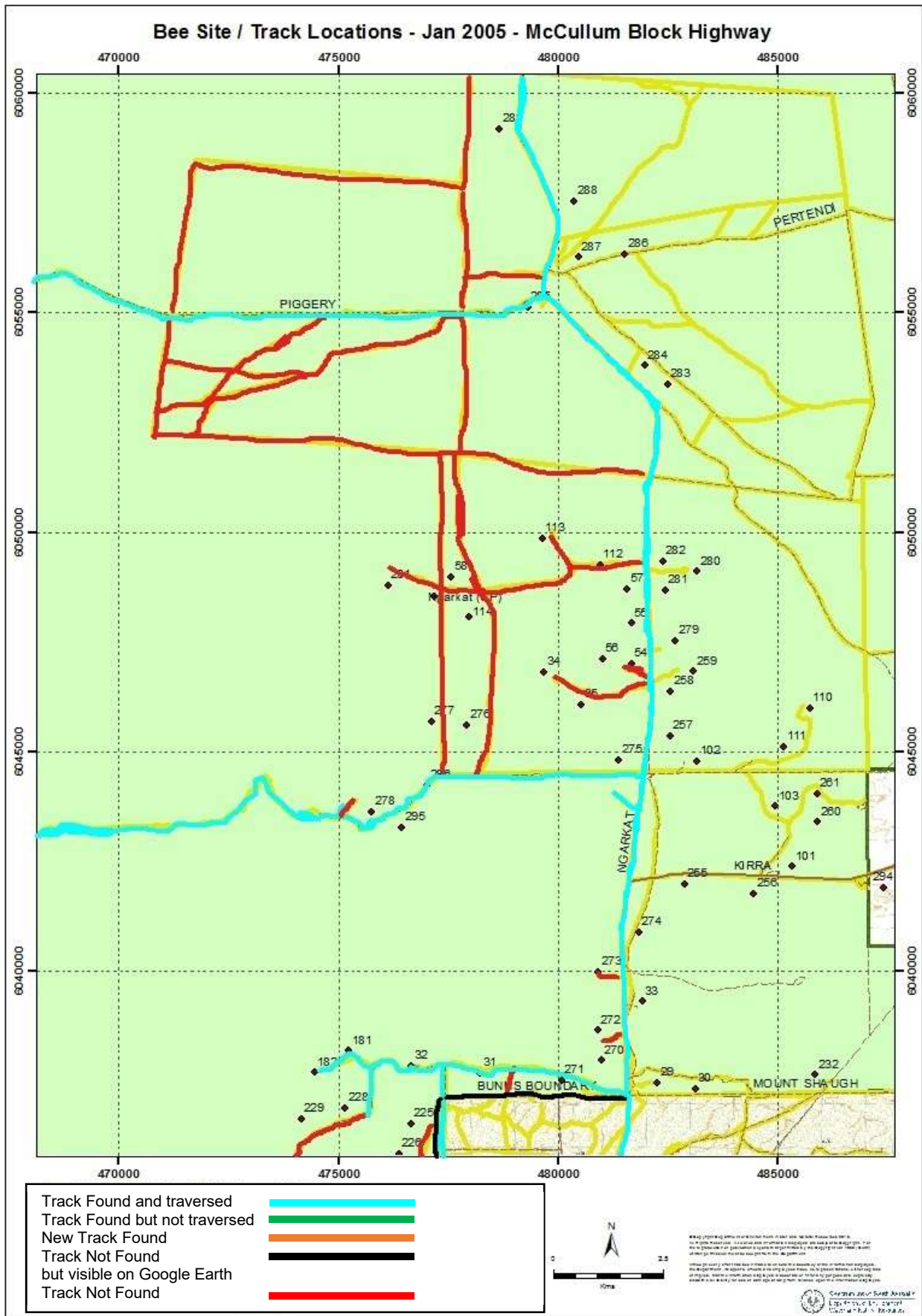
## Track Survey Diagrams



Track Survey Area Details for Group 5 in the northern survey section (north of the old McCullum Block) along with detailed historical tracks and bee sites.



## Track Survey Diagrams



**Track Survey Area Details for Group 5 in the northern survey section (north of the old McCallum Block) along with detailed historical tracks and bee sites.**

### Track Survey Bee Site and Other Features – Notes

Group 1 – South-Western section of the old McCallum Block – Darryl with Chris & Harry.  
The area surveyed being approximately between UTM Northing 6025000 & 6030000 and  
UTM Easting 455000 & 465000 on Saturday 4<sup>th</sup> June 2016.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, ~11:00am	Good				Southern Boundary Track
54H, ~11:00am		189		Not Found	Not Found
54H, 458782E, 6026340N 2016/06/04 11:17am	Overgrown, Passable	191?	None	Overgrown	Possible Bee Site #191, Star Dropper found but no tag.
54H, 459335E, 6025843N 2016/06/04 11:24am	Overgrown, Passable	190	Yes	Overgrown	Some re-growth, tag at centre of site.
54H, ~11:25am		186	None	Not Found.	Not Found.
54H, 460024E, 6024417N 2016/06/04 11:40am	Overgrown, Passable	188	Yes	Overgrown	Tag at edge of track, bee site 20m to east of GPS location.
54H, 11:45am	Good				Loop off of main South Boundary track, no obvious reason.
54H, 11:52am	Good				Loop off of main South Boundary track, no obvious reason.
54H, 462790E, 6025207N 2016/06/04 11:56am	Overgrown, Passable	187	Yes	Overgrown	Tag at edge of track.
54H, ~12:00pm		184	No	Not Found	Not Found
54H, 460951E, 6026321N 2016/06/04 12:11pm	Overgrown, Passable	185?	No	Overgrown	Possible Bee Site #185 or perhaps loop at end of track.
54H, 462774E, 6025127N 2016/06/04 12:29pm	Overgrown, Passable				Wrecked Vehicle ~100m to west of GPS location. No registration.
54H, ~12:30pm					Return along South Boundary Track to Baan Hill Track. f
54H, ~12:45pm	Not Found				Looking for track on DEWNR map that heads north-easterly and starts north of Emu-Wren Track off Baan Hill Track.
54H, 454171E, 6026193N 2016/06/04 1:03pm	Good	208	Yes	Good	Active bee site, tag at road side.
54H, ~1:15pm	Good				Emu Wren Track.
54H, 455432E, 6026347N 2016/06/04 1:24pm	Overgrown, Passable	?	None	Overgrown	Appears to be old bee site not shown on DEWNR map.
54H, ~2:20pm	Good				Mount Rescue Track.
54H, 460712E, 6030890N 2016/06/04 2:28pm	Overgrown, Passable	36?	None	Overgrown	Possible Bee Site #36.
54H, 457306E, 6029885N 2016/06/04 2:42pm	Impassable	37	Yes	Very Overgrown	Bee Site #37 50m to North of GPS location. No obvious track access from the main Mount Rescue track.
54H, 456157E, 6030082N 2016/06/04 2:51pm	Overgrown, Just Passable	167	Yes	Overgrown / Burnt.	Bee Site #167. Well overgrown and specific location unclear.
54H, ~2:55pm	Good				Baan Hill Track.
54H, 453936E, 6029377N 2016/06/04 3:00pm	Good	168	Yes	Good	Bee Site #168. Active Bee site. Tag on edge of Main Track.
54H, 453355E, 6027245N 2016/06/04 3:07pm	Good	207	Yes	Good	Bee Site #207. Active Bee site. Tag on edge of Main Track.
54H, ~3:08pm	Overgrown, (Practically) Impassable				Old Track west of Bee Site #207.

Note 1: The Southern boundary track is broad in most places with alternative tracks to follow.

## Track Survey Bee Site and Other Features - Notes

Group 2 – South-Eastern section of the old McCallum Block – Mike B & Mike PS  
 The area surveyed being approximately between UTM Northing 6025000 & 6030000 and UTM Easting 465000 & 480000 on Saturday 4<sup>th</sup> June and Sunday 5<sup>th</sup> June 2016.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 468967E, 6024377N 2016/06/04 11:55am	Overgrown				No tracks to North to (from?) this location. (UTM reading unclear?).
54H, 471715E, 6247154N 2016/06/04 12:10pm	Overgrown				Overgrown east-west track. (UTM reading unclear?, perhaps 6024154N).
54H, 468699E, 6026091N 2016/06/04 12:10pm	Overgrown				Track junction – Overgrown.
54H, 479272E, 6024684N 2016/06/04 12:30pm	(Not noted)	99	Yes?	(Not noted)	No active hive.
54H, 469937E, 6027299N 2016/06/04 12:40pm	(Not noted)	108	Yes?	(Not noted)	No active hive. End of track.
54H, 468254E, 6028911N 2016/06/04 1:07pm	Good	?			"Stake: with pink ribbon.
54H, 469620E, 6029043N 2016/06/04 1:10pm	Good	?			Track reinforced with Bitumen slabs.
54H, 474160E, 6029837N 2016/06/04 1:24pm	Overgrown	?			Track to left (?), stake on ground, no tag.
54H, 464540E, 6030472N 2016/06/04 2:12pm	Overgrown				Track intersection.
54H, 464540E, 6030472N 2016/06/04 2:13pm	Overgrown	93?	Yes?	(Not noted)	"Stake" 93. Cross road. Overgrown.
54H, 474033E, 6029615N 2016/06/04 2:40pm	Overgrown?				Cross road. Overgrown. (Notes unclear).
54H, 474097E, 6027895N 2016/06/04 3:10pm	Overgrown				Track junction. Overgrown. Hard to see.
54H, 476954E, 6030853N 2016/06/04 4:37pm					Joined track after detour to find (search for?) it.
54H, 475367E, 6028567N 2016/06/04 5:00pm					Rejoined track after detour to find track to South-East. Could not see track. Not useful.
54H, 466286E, 6024122N 2016/06/05 10:47am					No track found.
54H, 474478E, 6024059N 2016/06/05 11:07am	Overgrown				Very overgrown but passable.
54H, 474890E, 6026027N 2016/06/05 11:30am					Track not visible.
54H, 470795E, 6024757N 2016/06/05 11:52am					Track just visible.
54H, 467620E, 6025519N 2016/06/05 12:03pm	Overgrown				
54H, 466350E, 6026218N 2016/06/05 12:09pm		50	Yes?	(Not noted)	
54H, 465942E, 6026535N 2016/06/05 12:18pm		51	Yes?	(Not noted)	Track ends.
54H, 466000E, 6026091N 2016/06/05 12:23pm	Overgrown.				Overgrown track to north east.
54H, 467080E, 6025535N 2016/06/05 12:27pm		52	Yes?	(Not noted)	Track ends.
54H, 465350E, 6025329N 2016/06/05 12:33pm	Overgrown				Track junction – overgrown.
54H, 466096E, 6025265N 2016/06/05 12:35pm		48	Yes?	(Not noted)	
54H, 466651E, 6025651N 2016/06/05 12:37pm					Track ends.



## Track Survey Bee Site and Other Features - Notes

Group 2 – South-Eastern section of the old McCallum Block – Matt & Wayne.  
The area surveyed being approximately between UTM Northing 6025000 & 6030000 and UTM Easting 465000 & 480000 on Saturday 4<sup>th</sup> June and Sunday 5<sup>th</sup> June 2016.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 470224E, 6024308N 2016/06/04 11:37am	Passable				South Boundary Track.
54H, 470842E, 6024320N 2016/06/04 11:42am	Not Found				Track not found.
54H, 473331E, 6024325N 2016/06/04 11:57am	Overgrown				Pines Track. Visible and Overgrown.
54H, 473049E, 6024571N 2016/06/04 12:12pm	Overgrown				Track to left and right.
54H, 472235E, 6024813N 2016/06/04 12:16pm	Overgrown				Track junction. Track visible but overgrown.
54H, 471849E, 602663?N 2016/06/04 12:24pm	Overgrown				Overgrown (Northing uncertain).
54H, 471126E, 6027071N 2016/06/04 12:30pm		99	Yes	Overgrown.	Tag in good condition but needs some repair.
54H, 469714E, 6026976N 2016/06/04 12:44pm		108	Yes	Overgrown	Tag good, adjacent track (?). (Notes unclear).
54H, 466214E, 6030265N 2016/06/04 2:07pm	Good				
54H, 467029E, 6030251N 2016/06/04 2:14pm	Good	93	Yes	Overgrown	Tag good, edge of track (?). (Notes unclear).
54H, 474896E, 6030052N 2016/06/04 2:40pm	Overgrown				
54H, 474281E, 6028076N 2016/06/04 2:58pm	Overgrown				
54H, 474177E, 6028012N 2016/06/04 3:10pm					Track non-existent.
54H, 474828E, 6028160N 2016/06/04 3:14pm	Overgrown				
54H, 477398E, 6024426N 2016/06/04 3:49pm	Overgrown				
54H, 477417E, 6032526N 2016/06/04 4:14pm	Good				
54H, 477197E, 6031123N 2016/06/04 4:29pm	Overgrown				Track very hard to identify.
54H, 474502E, 6024327N 2016/06/05 11:10am	Overgrown				
54H, 474839E, 6026195N 2016/06/05 11:33am	Impassable				
54H, 471063E, 6025407N 2016/06/05 11:53am	Impassable				
54H, 467662E, 6025825N 2016/06/05 12:03pm	Overgrown				
54H, 466283E, 6026723N 2016/06/05 12:09pm		50	Yes	Cleared	
54H, 465869E, 6027860N 2016/06/05 12:18pm		51	Yes	Cleared	
54H, 466922E, 6027409N 2016/06/05 12:27pm		52	Yes	Cleared	
54H, 466309E, 6025789N 2016/06/05 12:33pm		48	Yes	Cleared	
54H, 466298E, 6025572N 2016/06/05 12:34pm					

## Track Survey Bee Site and Other Features - Notes

Group 3 – North-Western section of the old McCallum Block – Andrew.

The area surveyed being approximately between UTM Northing 6030000 & 6040000 and UTM Easting 455000 & 465000 on Saturday 4<sup>th</sup> June and Sunday 5<sup>th</sup> June 2016.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 454421E, 6037447N 2016/06/04 11:45am	Passable	13	?	Clearing	Picket at track.
54H, 456746E, 6038003N 2016/06/04 12:43pm	Passable	10	?	Clearing	Clearing inside track loop
54H, 455147E, 6038201N 2016/06/04 12:51pm	Passable	11	?	No clearing found	Star dropper found.
54H, 460188E, 6037682N 2016/06/04 1:43pm	Passable	79	?	No clearing found	Star dropper found at edge of track. Ripped but not levelled (?)
54H, 462063E, 6035650N 2016/06/04 1:58pm	Passable	81	?		Ripped (?). Not used.
54H, 464602E, 6035402N 2016/06/04 2:18pm	Passable	20	?	No clearing found	Star dropper found.
54H, 464282E, 6033102N 2016/06/04 3:08pm	Passable	18	?	No clearing found	Star dropper found.
54H, 464370E, 6033279N 2016/06/04 3:12pm	Passable	??	?	Clearing	
54H, 465507E, 6033515N 2016/06/04 3:30pm	Passable	19	?	Not found	Inaccessible. Star dropper found, track to North-West not traversable,
54H, 464565E, 6032106N 2016/06/04 3:??m	Passable	90	None?	Not found	Star dropper found.
54H, 465159E, 6030535N 2016/06/04 3:36pm	Passable	92	None?	Clearing	
54H, 454731E, 6036137N 2016/06/05 11:07am	Passable	86	None?	Clearing	No tag found on star dropper.
54H, 455159E, 6034956N 2016/06/05 11:15am	?	87	?	No clearing found	Star dropper found but no track to any clearing
54H, 456425E, 6034520N 2016/06/05 11:28pm	Overgrown	88	?	No clearing found	
54H, 457289E, 6035238N 2016/06/05 11:37pm	?	89	None?	Clearing	No star dropper found.
		78	?	?	At end of track. No tag.
54H, 461677E, 6034929N 2016/06/05 12:45pm	Passable	77	?	Overgrown	?
54H, 459557E, 6034254N 2016/06/05 1:40pm	?	6	None	Overgrown	No tag. Star dropper found on ground.
54H, 461236E, 6032864N 2016/06/05 2:00pm	?	5		Overgrown	Star dropper found on track.
54H, 464178E, 6030513N 2016/06/05 2:40pm	?	91	None	Clearing	

## Track Survey Bee Site and Other Features - Notes

Group 3 – North-Western section of the old McCallum Block –Russel & Lee.

The area surveyed being approximately between UTM Northing 6030000 & 6040000 and UTM Easting 455000 & 465000 on Saturday 4<sup>th</sup> June and Sunday 5<sup>th</sup> June 2016.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 2016/06/04 11:04am					Intersection marked on map NOT found.
54H, 452597E, 6037771N 2016/06/04 11:23am	Overgrown				Baan Hill Track and McCallum Intersection (?).
54H, 454313E, 6037383N 2016/06/04 11:42am	Passable				
54H, 454421E, 6037448N 2016/06/04 11:44am	Passable	13	None	Cleared	Inactive. Post but No Tag. (WP8 <sup>1</sup> ).
54H, 457739E, 6035749N 2016/06/04 12:09pm	Passable				Track intersection. (WP9).
54H, 459647E, 6035285N 2016/06/04 12:19pm	Passable				Track intersection. (WP10).
54H, 456704E, 6038009N 2016/06/04 12:49am	Passable	10	None	Cleared	Inactive. No Tag. (WP11).
54H, 455200E, 6038206N 2016/06/04 12:50pm	Very Overgrown	11	Yes	Not cleared (overgrown?).	Inactive (?). (WP12). Track ends.
54H, 460186E, 6037688N 2016/06/04 1:42pm	Passable	79	Yes	Not cleared (overgrown?).	Inactive (?). (WP13).
54H, 462115E, 6035679N 2016/06/04 1:55pm	Passable	81	Yes	Not cleared (overgrown?).	Track to Bee Site not defined (non-visible?). (WP14).
54H, 462987E, 6035493N 2016/06/04 2:07pm	Passable	??	None		2 star droppers not marked. (WP15).
54H, 464605E, 6035404N 2016/06/04 2:19pm	Passable	20	None	Previously cleared.	Inactive. No tag (?). (WP17).
54H, 464047E, 6034250N 2016/06/04 2:40pm	Passable	??	None	??	6 star droppers in "clearing circle". (WP18).
54H, 463584E, 6034357N 2016/06/04 2:45pm					Emu Wren Roads. (WP19). Overgrown (?).
54H, 464280E, 6033096N 2016/06/04 3:06pm	Passable	18	Yes	Overgrown.	(WP20).
54H, 467373E, 6033278N 2016/06/04 3:10pm	Overgrown	??	None	No evidence.	Bee site not clearly defined. (WP21).
54H, 465585E, 6033516N 2016/06/04 3:30pm	Passable	19	Yes	??	(WP22). Overgrown (?).
54H, 464582E, 6032192N 2016/06/04 3:44pm	Passable	90	Yes	No evidence.	Overgrown and new growth on track. (WP23).
54H, 465104E, 6030563N 2016/06/04 3:56pm	Poorly defined	92	Broken Off	Poor Track?	Overgrown and new growth on track. (WP24).
54H, 454662E, 6036522N 2016/06/05 11:00am	Visible				Intersection. (WP25).
54H, 454784E, 6036122N 2016/06/05 11:03am	Visible	86?	None	Cleared.	Possibly Bee Site 86. (WP26).
54H, 454725E, 6036140N 2016/06/05 11:08m	Visible	??	None.	Unused	Inactive.
54H, 455122E, 6034963N 2016/06/05 11:13am	Visible	87	Yes	Overgrown	Overgrown. (WP27).
54H, 456406E, 6034541N 2016/06/05 11:24am	Overgrown but visible	88	Yes	Overgrown	Overgrown. (WP28). No obvious bee site. Track impassable to bee site (?).
54H, 457311E, 6035233N 2016/06/05 11:36am	Poor but passable	89?	No	Overgrown	No star dropper or tag. Possibly Bee Site 89. (WP29).
54H, 461504E, 6034814N 2016/06/05 12:40pm	Overgrown but passable	77	Yes		Entrance to Bee Site 77. (WP31).
54H, 461683E, 6034931N 2016/06/05 12:44pm	Overgrown but passable	77		Overgrown. Unused.	Actual Bee Site 77. (WP32).
54H, 459592E, 6034267N 2016/06/05 1:40pm	Overgrown and Poor	6	Yes	Overgrown. Unused.	Tag on ground. (WP34).



### Track Survey Bee Site and Other Features - Notes

54H, 461233E, 6032872N 2016/06/05 1:58pm	Overgrown and Poor	5	Yes	Overgrown. Unused.	Evidence of clearing. (WP35).
54H, 464169E, 6030527N 2016/06/05 2:38pm	Overgrown and Poor	91	Yes	Obvious clearing. Unused.	(WP39).

Note 1: WP# in comments means Waypoint Number on GPS track data.

## Track Survey Bee Site and Other Features - Notes

Group 4 – North-Eastern section of the old McCallum Block – Ray.

The area surveyed being approximately between UTM Northing 6030000 & 6040000 and UTM Easting 465000 & 480000 on Saturday 4<sup>th</sup> June 2016.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 476786E, 6037857N 2016/06/04 2:43pm	Overgrown	32	Yes	Not found.	Tag found on (edge of) track. Bee site not apparent?
54H, 465566E, 6033537N 2016/06/04 ??pm	Overgrown	19	Yes	Not found.	Tag found on (edge of) track. Bee site not apparent?
54H, 475679E, 6037815N 2016/06/04 ??pm	Overgrown	181	Yes	Not found.	Tag found on (edge of) track. Bee site not apparent?

Note 1. No other Bee Site locations or star dropper/tags were found in this area except for a star dropper in the vicinity of the expected location of Bee Sites 225/226/227.

Note 2. Many tracks shown on the DEWNR map were no longer visible or traversable.

Note 3: The condition of the Mt. Rescue track becomes poor as it approaches the Bunns Boundary track (far eastern side of this surveyed area) between 473000E and 477000E. The track then turns north and runs parallel to the boundary track with no obvious crossover. The crossover was eventually “forced” as can be seen on the GPS track overlay. Google Earth images show two faint crossovers that would be hard to discern on the ground.

Note 4: General track condition was slightly to moderately overgrown but traversable.

## Track Survey Bee Site and Other Features - Notes

Group 5 – Western edge of the Pinnaroo to Bordertown road adjacent to the old McCallum block as well as the more northerly “Piggery Track” – Kevin and Jenny.

The area surveyed being approximately between UTM Northing 6040000 & 6060000 and UTM Easting 470000 & 482000 on Saturday 4<sup>th</sup> June and also the entire “Piggery Track”.

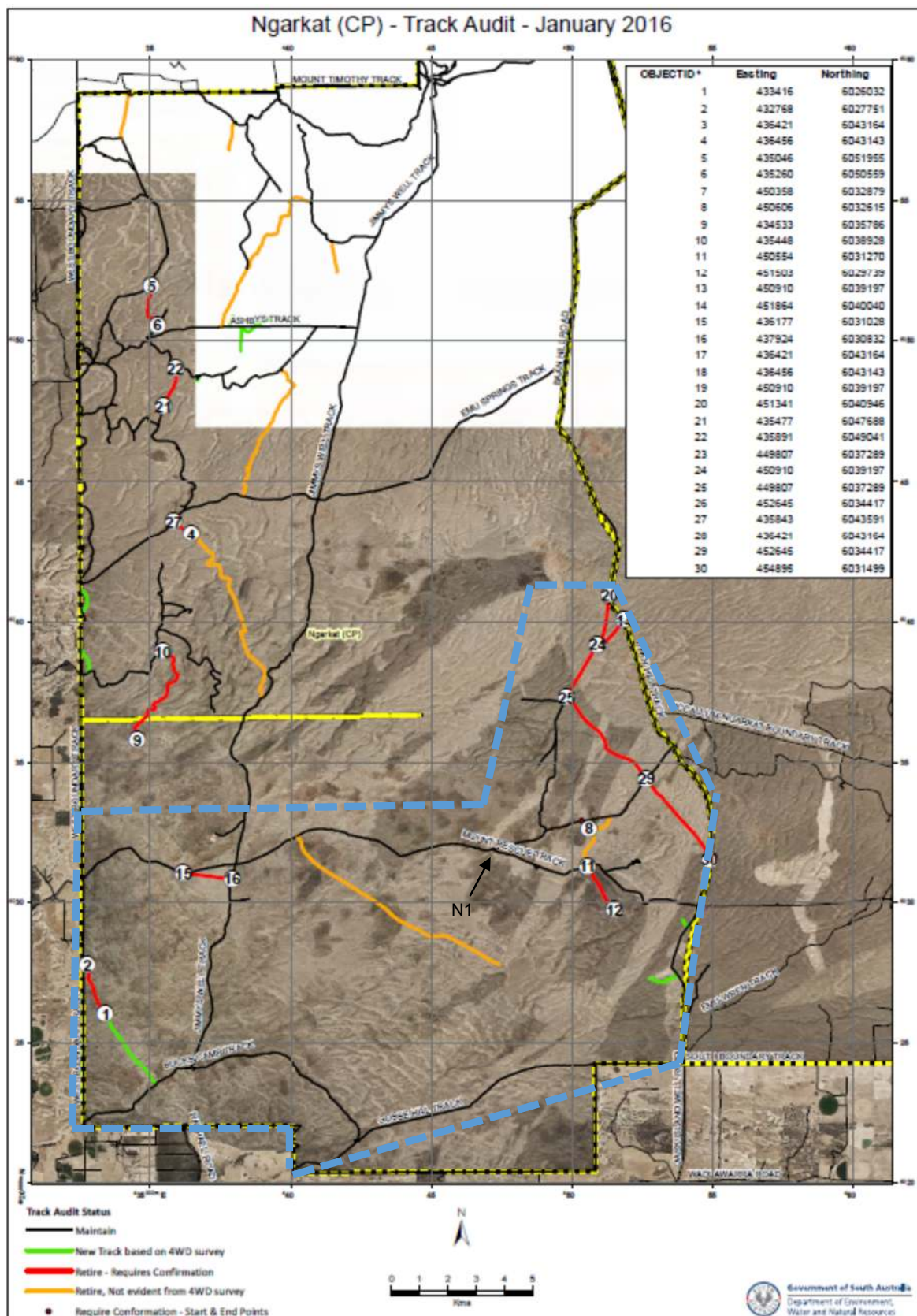
UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 479663E, 6055408N 2016/06/04 12:50pm	Overgrown	285?	No	Overgrown	A possible site at turnoff location?
54H, 2016/06/04 ~1:00pm		289		Not found.	
54H, 476518E, 6043732N 2016/06/04 2:02pm	Overgrown Passable	295?	No	Cleared	Star dropper (rusty) located next to track, no tag.

Note 1. Most tracks shown on the DEWNR map of this area of the survey were no longer visible or traversable.

Note 2: General track condition was slightly to moderately overgrown but traversable.



# Review of issues from the September 2015 Track Survey



The above map was provided by DEWNR as a means to highlight issues from the September 2015 track survey to be reviewed. During this track survey it was only possible to review the items within the area bounded by the dashed blue line ( — — — — — ) on the above map.

## Review of items from September 2015 Track Survey

The following are comments on the review of the numbered items within the area bounded by the [dashed blue line](#) on the preceding map.

Numbered Review Item	Survey Group	Comments
Track from Point 1 to Point 2	Group 5 (Kevin & Jenny)	The track is there but virtually unpassable. The last 200m to the Western Boundary track is non-existent (near Point 1).
Track from Point 15 to Point 16	Group 5 (Kevin & Jenny)	A small red sign found in the vicinity of Point 15. No track found from either Point 15 or Point 16.
Track from Point 11 to Point 12	Group 4 (Ray)	Evidence of old track just near Point 11 (near Star Dropper tagged 170). Presume not traversable (?).
N1 on map	Group 4 (Ray)	Old entry (track junction) at Mt. Rescue 4km sign, track to north-east confirmed.
Track from Point 29 to Point 30	Group 4 (Ray)	Track exists but overgrown, virtually unpassable.
Track from Point 14 to Point 24	Group 4 (Ray)	Track exists but overgrown, virtually unpassable.
Track from Point 20 to Point 24 to Point 25 to Point 29	Group 4 (Ray)	Track exists but overgrown, virtually unpassable.

The following are comments on the Bee Site locations reviewed within the area bounded by the [dashed blue line](#) on the preceding map.

UTM Location or Time	Access Track Condition	Bee Site #	Bee Site Tag	Bee Site Condition	Comments
54H, 454171E, 6026193N 2016/06/04 1:03pm	Good	208	Yes	Good	(Group 1 - Darryl). Active bee site, tag at road side.
54H, 453936E, 6029377N 2016/06/04 3:00pm	Good	168	Yes	Good	(Group 1 - Darryl). Bee Site #168. Active Bee site. Tag on edge of Main Track.
54H, 453355E, 6027245N 2016/06/04 3:07pm	Good	207	Yes	Good	(Group 1 - Darryl). Bee Site #207. Active Bee site. Tag on edge of Main Track.
54H, ~3:08pm	Overgrown, (Practically) Impassable				Old Track west of Bee Site #207.
54H, 2016/06/04		209		Not found.	(Group 1 - Darryl)
54H, 2016/06/04		210		Not found.	(Group 1 - Darryl)
54H, 2016/06/04		211		Not found.	(Group 1 - Darryl)
54H, 2016/06/04		212		Not found.	(Group 1 - Darryl)
54H, 2016/06/04		213		Not found.	(Group 1 - Darryl)
54H, 2016/06/04		179		Not found.	(Group 1 - Darryl)
54H, 2016/06/04		180		Not found.	(Group 1 - Darryl). See Note 1 at end of table.
54H, 2016/06/04		221		Not found.	(Group 1 - Darryl)
54H, 2016/06/05		27		Not found.	(Group 5 - Rohan)
54H, 2016/06/05		28		Not found.	(Group 5 - Rohan)
54H, 2016/06/05 ~10:00am		23		Not found.	(Group 5 - Kevin)
54H, 434863E, 6023852N 2016/06/05 10:01am	Passable	24	Yes	Cleared.	(Group 5 - Kevin). Location next to Marker.

## Review of items from September 2015 Track Survey

54H, 434203E, 6024771N 2016/06/05 10:06am	Passable	25	Yes	Tag needs repair. Site cleared.	(Group 5 - Kevin). Location next to Marker. Eastern side of track.
54H, 433352E, 6025999N 2016/06/05 10:27am	Passable	26	Yes	Cleared and active.	(Group 5 - Kevin).
54H, 433107E, 6031436N 2016/06/05 11:28am	Good, Passable	150	Yes	Cleared.	(Group 5 - Kevin).
54H, 434008E, 6032167N 2016/06/05 11:33am	Passable	53	Yes	Cleared and active.	(Group 5 - Kevin).
54H, 435003E, 6031470N 2016/06/05 11:40am	Good, Passable	151	Yes	Cleared and active.	(Group 5 - Kevin). North side of (Mt. Rescue) track.
54H, 436108E, 6031108N 2016/06/05 11:47am	Overgrown, Passable	152	Yes	Cleared.	(Group 5 - Kevin). North side of track. 2 old tags and a new large tag.
54H, 438040E, 6031819N 2016/06/05 12:01pm	Passable	172	Yes	Cleared and active.	(Group 5 - Kevin).
54H, 438510E, 6030144N 2016/06/05 12:31pm	Passable	176	Yes	Cleared.	(Group 5 - Kevin).
54H, 437271E, 6028540N 2016/06/05 12:39pm	Passable	177	Yes, Worn	Cleared	(Group 5 - Kevin). Large area.
54H, 2016/06/05		178		Not found.	

Note 1. Bee Site #180. Although not explicitly found there is a possible Bee Site shown on Google Earth in the vicinity of the road junction where Bee Site #180 is indicated on the September 2015 survey map. This would need to be reviewed at a future time.