

**ASSESSING THE SOCIAL IMPACTS OF THE SOUTH EAST QUEENSLAND  
HORSE RIDING TRAIL NETWORK:  
METHODS REPORT**

**For the Queensland Department of Environment and Resource Management**



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## SUMMARY

Over thirty-six State Forests have/are being converted to National Parks (NP) or Forest Reserve (FR) as part of the South East Queensland Forests Agreement. As part of this process, a network of 547 kilometres of horse riding trails were/are being established within Forest Reserves. These are part of the South East Queensland Horse Riding Trail Network (SEQ-HTN). The Department of Environment and Resource Management (DERM) has established a 20-years scientific monitoring program to assess the social and biophysical impacts associated with this Horse Riding Trail Network. Griffith University was awarded the tender from DERM for the provision of scientific and technical services to develop and test a program to monitor social impacts of the Horse Riding Trail Network. Work on this tender commenced on the 28<sup>th</sup> of April 2011. This report summaries the methods used/to be used for this research and initial results.

The first part of the research required surveys of park users to be conducted to provide qualitative and quantitative information about issues that concern them. The surveys used were: 1) a core survey with minor modifications from the original survey pilot tested by Rossi and Pickering in 2010, 2) an extended survey including questions regarding change in status of the sites and, 3) an extended survey including questions regarding visitor values. The survey instruments were tested during a pilot survey, and minor refinements made before the main field work.

The field work for the survey of park users commenced in April 2011 and was completed in October 2011 with a total of 724 people surveyed across seven sites (~Parks/reserves e.g. D'Aguilar NP - South section), Nerang NP, Springbrook NP, Tewantin NP, Mapleton FR, Glass House Mountains NP, D'Aguilar NP - North section) covering the SEQ-HTN. The first site (D-Aguilar NP - South Section) was surveyed on 6 days over the extended Easter period in 2011 to obtain a large enough dataset to be able to compare among different user groups, with 75% of visitors given the core survey, and 25% given the extended survey including questions regarding the change in status of the site. The other sites were surveyed using the extended survey including questions regarding visitor values in September-October 2011 to assess if patterns of use, attitudes and values were consistent among parks/reserves.

Across all people surveyed (79% response rate), the most popular activities were bushwalking (285 people), mountain biking (261), running (62), trail bike riding (29), picnicking (24), horse riding (12), dog walking (10) and other less common activities (34). Types of use varied dramatically among sites, with hiking the only activity undertaken in all Parks.

Based on the 288 visitor surveyed at Site 1 (D'Aguilar NP South), the most popular activities were bushwalking (121 people), mountain bike riding (95), running (39), dog walking (6), horse riding (5), bird watching (4), nature encounter (4), volunteering (3), socialising (2), picnicking (2), conservation (1), fishing (1), praying (1) and scenic driving (1). At this site, there was a neutral to positive perception about mountain biking, horse riding, bushwalking, running, picnicking and dog walking, but unauthorised use by trail bikes and 4WD were perceived as having a negative effect on visitor experiences.

Further analysis of the visitor data will be undertaken including assessing if patterns found at Site 1 apply more generally and comparing demographic, attitudes and usage patterns amongst major user groups.

Once the visitor survey analysis is completed, the second stage of the research will be undertaken in the first half of 2012. This will involve conducting interviews of stakeholder groups who may not be captured through the park user survey. These interviews will provide qualitative information about their perceptions of the SEQ-HTN. Details of the methods that will be used for the interviews are given in this report. The third and final stage of the research will examine impacts of the horse riding trail network on the broader community. It will involve conducting surveys of local communities including park neighbours to provide qualitative and quantitative information about any off-site social impacts of the SEQ-HTN. Catchment communities will be identified based on the visitor survey data. Details of how the catchment communities will be surveyed in the second half of 2012 are given in the report.

## INTRODUCTION

### *Background*

A number of areas of State Forest and other Reserves within South East Queensland have been or are in the process of being transferred to National Park (NP) as an outcome of the South East Queensland Forests Agreement (SEQFA). As part of this process, most recreational activities will continue to be permitted (DERM 2008a). However, on the basis of what is appropriate and sustainable for each area, within the guidelines established by the Nature Conservation Act 1992, horse riding will only be permitted by regulatory notice in nominated areas of conservation parks and resources reserves (DERM 2008b) (Table 1).

Table 1. Permitted activities in Queensland Parks and Wildlife Service managed areas based on their current status (DERM 2008b)

Status	Bush Walking	Vehicles	Horse riding	Walking, dogs (guide dogs excepted)	Grazing	Bee Keeping
National park (scientific)	X	X	X	X	X	X
National park	✓	✓ On roads	X	X	X	X
National park (recovery)	✓	✓ On roads	X	X	X	X
Conservation park	✓	✓ On roads	✓ By regulatory notice	X	X	✓ Under permit
Resources reserve	✓	✓ On roads	✓ By regulatory notice	X	X	✓ Under permit
Forest Reserve	✓	✓ On roads	✓ By regulatory notice	✓ By regulatory notice	✓ Under permit	✓ Under permit

May occur, where permitted

X No, cannot occur on this tenure

As part of the process involved in the change of status of these areas, the Queensland Government created the South East Queensland Horse Riding Trail network (SEQ-HTN) in recognition that horse riding has long been a part of the state's lifestyle and character. The SEQ-HTN is a network of existing formed management roads located in Forest Reserves that can traverse some of the new national park and conservation parks (DERM 2011).

In South East Queensland in Australia, horse riding is a popular activity including State Forests (Pickering 2008). As some of these State Forests have been traditionally used for horse riding, the Queensland Government proposes to continue to provide access for this activity on some formed management roads through the proposed parks. Horse riding trails would occur on narrow strips of forest reserve tenure when the surrounding area was/is transferred to National Park (DERM 2011). The SEQ-HTN consists of approximately 547 km of trails through five areas: Noosa, Mapleton, Kenilworth, Caboolture-Bellthorpe, Western Brisbane and the Gold Coast. There are also approximately 340 km of trails in State Forest and forest plantations adjacent to the SEQ-HTN, and over 470 km of trails on other lands. In these trails, activities that are often permitted include horse riding, mountain

bike riding and bushwalking. Equestrian activities will not be allowed in existing or the newly declared national parks as part of this process (DERM 2011).

The Queensland Government established a long-term (20-years) scientific monitoring program to assess the social and biophysical impacts of the SEQ-HTN and review its operation (DERM 2011). A major aim of the social component of the scientific monitoring program is to understand visitor and community attitudes and perceptions towards the Horse Trail Network (HTN) in South East Queensland (SEQ). To do this, DERM issued a tender, for the provision of scientific and technical services to develop and test a program to monitor social impacts of the SEQ-HTN. Griffith University put forward an offer for this tender at the end of 2010. They were awarded the tender, with work commencing in April 2011.

The research to be undertaken as part of this tender is based on the latest academic research and park and community visitor survey protocols. These are used to develop survey designs, methodologies and data analysis. Results and recommendations of the research will be presented as reports for DERM. The protocols and survey instruments used will be designed so they will be appropriate for current and future monitoring of visitor and community attitudes to the SEQ-HTN

The research also forms the basis of the first two years of the PhD thesis of Sebastian Rossi's, under the supervision of Associate Professor Catherine Pickering and Senior Lecturer Jason Byrne, from Griffith University. Therefore the research will also be used for his PhD thesis, for academic publications and conference presentations.

### ***Aims and structure of this report***

A requirement of the tender was the delivery of a Methods Report. This Report therefore outlines the methodology to be used for assessing the social impacts of the SEQ-HTN.

Specifically it outlines the methods used for assessing the:

- A. Impacts of the horse trail network on park users. Specifically:
  - A1. Surveys of park users to provide qualitative and quantitative information about issues that concern them.
  - A2. Interviews to provide qualitative information about the perceptions of stakeholder groups who may not be captured through the park user survey, about the impacts of the network.
- B. Impacts of the horse trail network on the broader community. Specifically:
  - B1. Surveys of local communities including park neighbours to provide qualitative and quantitative information about any off-site social impacts of the SEQ-HTN.

For each of the three requirements (A1, A2 and B1) of the project listed in the tender document a detailed response is provided below including the approach to take/has been taken, methods, how the data will be/has been analysed and the outputs produced. For the survey of park users (A1) 724 visitors have already been surveyed over 7 sites in the SEQ-HTN and an initial analysis undertaken. The following section outlines in details the methodology used for each of the three sections of the research along with the initial analysis of visitor survey and its implications for the SEQ-HTN.

## **METHODOLOGY FOR SURVEYS OF PARK USERS (A1)**

### ***Development of the survey:***

This survey was designed to provide qualitative and quantitative information about park uses and the issues that concern them. A report describing the methodology, survey instrument, results and recommendations from field testing of a survey instrument was provided to DERM prior to the tender in a 27 page report (Rossi, S. and Pickering, C. 2010. South East Queensland Horse Trail Network: Pilot of Social Survey of Park Visitors. Report submitted to the Department of Environment and Resource Management (Queensland Government). For the survey of visitors in the full DERM tender, three updated versions of that survey were used. They were:

#### 1. Core survey

This form of the survey contained 24 questions and obtained data on (1) actual park usage, (2) visitor origin, (3) attitudes about a range of user groups including horse riders and (4) general visitor demographic data (See Appendix 1 for a copy of the Core survey). It is slightly modified from the original survey used in the pilot testing.

#### 2. Extended survey including change in status questions.

This form of the survey contained 33 questions and obtained the same basic data as the core survey, but it also included 9 questions on the attitudes of visitors to the change of status of parts of the area (State Forest / Forest Reserve to National Park) (See Appendix 2 for a copy of the extended survey including change in status questions).

#### 3. Extended survey including values questions.

This form of the survey contained 25 questions and obtained the same basic data as the core survey, but in also included 2 questions on the values of visitors (See Appendix 3 for a copy of the extended survey including values questions).

The core survey instrument (including change in status questions) was submitted and approved by the Griffith University Human Research Ethics Committee (GUHREC) on July 2010. After modifications from the testing and inclusion of the new values questions, it was again submitted and approved by GUHREC on September 2011.

Both the core and extended survey including change in status questions were based on the survey as described in Rossi and Pickering (2010). The third version of the survey was developed to also collect information about visitor values, which can influence in their attitudes to other users. The likert scale questions (ranged from strongly positive to strongly negative) were used to determine users attitudes towards the environment determining if their values are broadly 'ecocentric' or 'anthropocentric'. These two questions were previously used and their validity and reliability tested in a survey of Karawatha NP by Sally Healy in her thesis "Urban Nature Parks – Their Use and Management" which she submitted on October 27, 2009 for her Bachelor of Science (honours), at Griffith University, Gold Coast.

### ***Data collection***

#### **Timing and administration**

Initially the surveys were going to be conducted on at least 2 weekdays and 2 days on the weekends in each site. However, preliminary sampling in different locations within sites, along with advice from park rangers, and data from the video monitoring (Appendix 4) quickly demonstrated that visitation was often very low on weekdays on the SEQ-HTN. Visitation per day on weekends was more than five times greater than visitation per week day, and based on the video monitoring overall usage is low (Fairfax et al. 2011). Therefore, sampling was modified to focus on periods of peak usage: specifically weekends in autumn and spring, often coinciding with school holidays/public holidays. Each location was surveyed on at least two days: one Saturday and one Sunday. Patterns of peak use across a day were also considered in selecting timing for the surveys as they can vary from site to site. For example, while D'Aguilar NP mainly receives high visitation in the morning, visitation is spread out over the whole day at Nerang NP. Therefore all surveys were conducted from early morning (6 am – 7 am) until the number of visitation declined to less than four per hour. The average number of hours surveyed per location per day was 10 hours (Table 2).

The surveys were undertaken by Griffith University staff and student/volunteers, who received training prior to undertaking the survey. They were under the supervision of Sebastian Rossi. Two interviewers asked visitors to complete the survey as users were arriving or leaving the Horse Riding Trail Network. The participation of respondents was voluntary and each participant completed the survey on their own.

Intensive sampling was undertaken in the first site to obtain a large enough dataset for a single site to be able to statistically compare among people undertaking different activities in the same place. Surveys were therefore conducted over six days across the Easter period of 2011 to obtain data from at least 200 visitors (Table 2). For each of the other sites, surveys were conducted on over two days on weekends during September and October 2011 in spring. Each site was surveyed on a Saturday and a Sunday (Table 2). This sampling complied with the requirement for a minimum of 40 people per site as set out in the tender, and provided data to enable statistically comparable results among users in different sites within the SEQ-HTN (Figure 1).

For the intensive sampling at the first site, 75% of participants were asked to complete the core survey while the remaining 25% were asked to complete the extended survey including change in status questions. This provided data to compare among users at a single site, and information on visitor attitudes to the change in status. For the other 6 sites, the extended survey including values question was administered, so attitudes can be compared with values among users across sites within the SEQ-HTN.

### **Selection of sites for the survey**

The aim as set out in the tender document was to survey between 700 and 1000 people, with surveys undertaken in a minimum of five sites across the SEQ-HTN with a minimum of 40 people per site. This stratified sampling method was used to ensure that the results are statistically reliable and comprehensive.

For the survey of park visitors, 7 sites (~Parks/reserves) were selected that had high levels of visitation, and were geographically spread across the SEQ-HTN (DERM 2011) (Fig. 1).

Within each site one or more high use entrances/trail intersections were identified based on preliminary field work and information from park rangers. They were selected to increase response rates as they were the most likely location where visitors may have interacted with other users.

The seven SEQ\_HTN sites (~ parks/reserves) sampled were:

1. D'Aguilar National Park (South) - "South Boundary Road" forest trail. Specifically:
  - a. Boscombe Road and South Boundary Road intersection.
  - b. Gold creek Reservoir entrance.
  - c. Mount Nebo Road and South Boundary Road intersection.
2. Nerang National Park - "Centre Road", "Yarraine Break", "Easemen Break" forest trails. Specifically:
  - a. Velodrome entrance.
  - b. Yarrayne Break and Lawnhill Dr. intersection.
3. Springbrook National Park - "Yanus", "Red Hill", "Water Falls Creek" and "Pocket Road" Forest trails. Specifically:
  - a. Pine Creek Road and Nerang-Murwillumbah Rd.
  - b. Pocket road and picnic area.
  - c. Yanus break and Nerang-Murwillumbah Rd.
4. Tewantin National Park - "Wooroi" forest trail. Specifically:
  - a. Wooroi day use area.
5. Mapleton Forest Reserve. - "Oakly Lookout Break" and "Great Walk" forest trails. Specifically:
  - a. Mapleton day use area.
  - b. "Great Walk" and "Mapleton Forest Drive" intersection.
6. Glass House Mountains National Park - "Caves Road" Forest trail. Specifically:
  - a. Tibrogargan day use area.
7. D'Aguilar National Park (North) - Forest trail and forest drives. Specifically:
  - a. The Gantry day use area.

The appropriateness of sampling at particular trails and sites was cross checked with park rangers at each corresponding park management unit prior to sampling. Despite this careful selection, some sites did not experience high levels of use such as Springbrook National Park (Numinbah Valley). To compensate for this, additional sites were added to ensure an adequate sample size and geographic spread of data. Hence 7 sites were sampled rather than the 5 originally proposed in the tender.

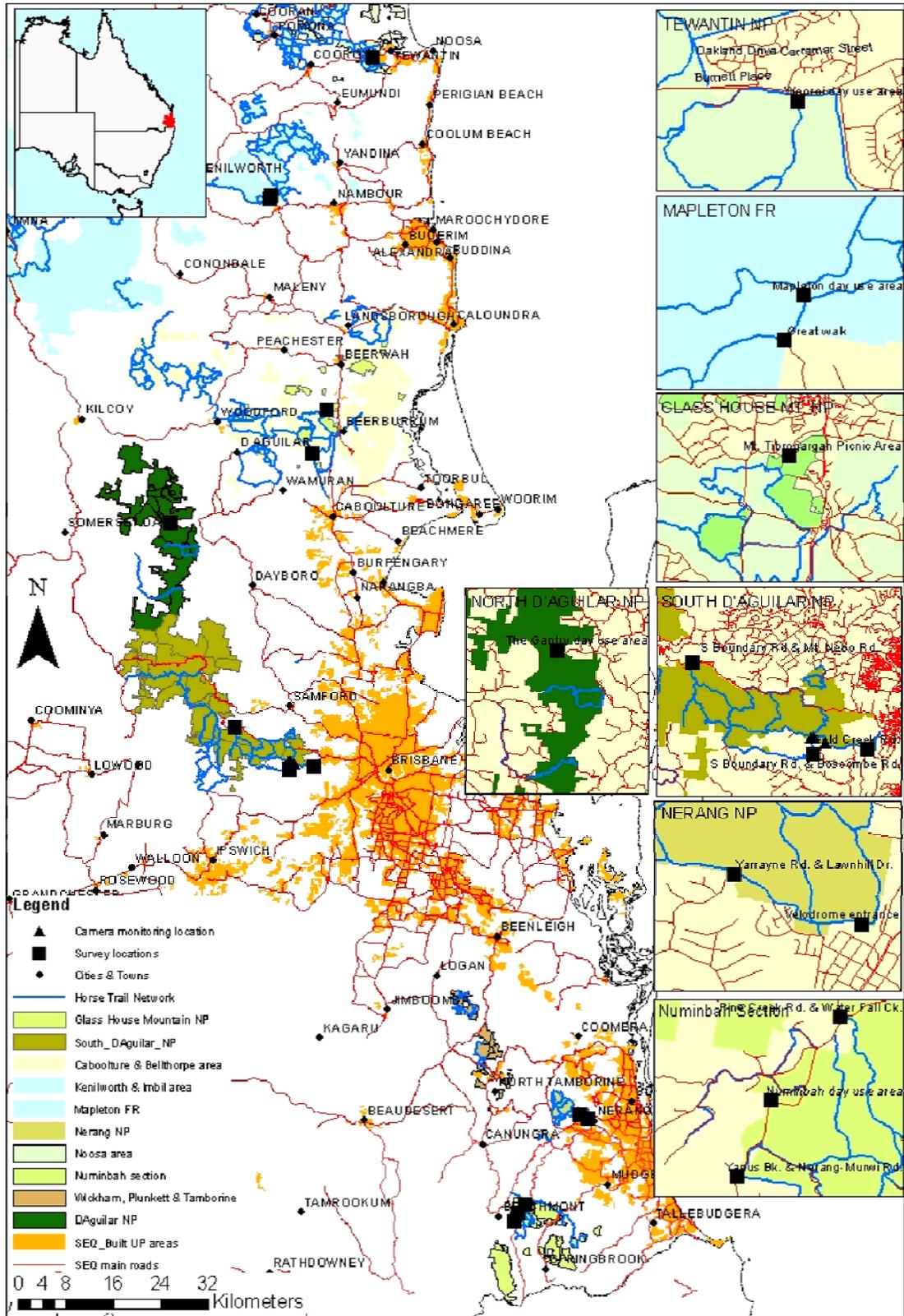


Figure 1. Survey locations within the seven sites containing the Horse Riding Trail Network in South East Queensland.

## **Details of sites and locations surveyed**

Description of each site is provided below and summarised in Table 2 including when the surveys were conducted and the number of respondents. The approximate kilometres of the HTN for each site was calculated from GIS information provided by DERM.

### **Site 1. D’Aguilar National Park - “South Boundary Road” forest trail**

D’Aguilar National Park is divided in two sections (North and South) containing 189 km of Horse Riding Trails with multiple entrances. The southern section of this Park was selected for intensive surveying over the Easter holidays and following long weekend (22 April – 2 May 2011). It was selected due to the extent of the Horse Riding Trail Network (158 km), the recently change in status (transferred to National Park in 2009), and its short distance to the largest populated centre (Brisbane city) in Queensland. Also, data from the survey testing and camera monitoring program showed regular visitor use and that visitors undertook a wide range of activities (Dowling & Goulding 2010, Rossi & Pickering 2010). Three locations were selected in this site: A) Gold Creek Rd car park, B) Boscombe Rd and South Boundary Rd and C) Mt. Nebo Rd and South Boundary Rd (Fig. 1).

### **Site 2. Nerang National Park - Forest trails**

Nerang National Park is located in the Gold Coast, 12 km from Surfers Paradise. This site is surrounded by residential areas and it contains 50 km of HTN with several entrances to the Park. Two locations were selected: the velodrome (main entrance) and the intersection between Yarrayne Rd and Lawnhill Dr (Fig. 1). The visitor survey was conducted on Saturday 17<sup>th</sup> and Sunday 18<sup>th</sup> 2011.

### **Site 3. Springbrook National Park - Forest trail**

The Numinbah section of the Springbrook National Park is located in the Gold Coast, 18 km from Nerang. This site includes 50 km of the HTN. Two locations were selected: “Waterfall Break/Nerang-Murwillumbah Rd” and “Yanus break/Nerang-Murwillumbah Rd” (Fig. 1). These locations are part of the “Great Walk” and also the popular adventure race “KOKODA Challenge”.

The visitor survey started on Saturday the September 24<sup>th</sup> of 2011 at 6 am. During eight hours no visitors were seen at the selected locations. Pocket Rd and the Picnic Area were also checked by the interviewers but only two visitors were found. On this basis data collection was suspended for this site.

### **Site 4. Tewantin National Park - Wooroi forest trail**

Tewantin National Park is located 10 km west from Noosa itself and 2 km west from Tewantin. The site contains 44 km of the HTN with multiple entrances. Wooroi day use area was selected to conduct the surveys because it is the main entrance to the Park and has relatively high use (Fig. 1). The survey was conducted on Saturday the September 24<sup>th</sup> and Sunday the 25<sup>th</sup> of 2011.

### **Site 5. Mapleton Forest Reserve - Forest trails**

Mapleton Forest Reserve is located in Kenilworth-Mapleton area, 105 km northern Brisbane, 11 km from Nambour and 2 km from Mapleton. This site contains around 160 km of the HTN. Also it is one of the few locations near the HTN in South East Queensland where trail bike riding and four wheel driving is permitted. These activities are only permitted in forest drives and designated trails and are banned in walking trails and the

HTN. Although motorised activities are separated from non-motorised, there are some points and short sections of trails where they can interact and/or see each other (Rossi, pers. obs.). This is the case for Mapleton day use picnic area located in Mapleton Forest Drive and Lookout Break. This location is used by bushwalkers, mountain bikers, four wheel drivers, trail bike riders and picnickers. Mapleton day use area and the intersection between Mapleton Forest Drive and the Great Walk were selected for the survey (Fig. 1). Interviews were conducted during two days: Saturday 1<sup>st</sup> and Sunday 2<sup>nd</sup> of October 2011.

#### **Site 6. Glass House Mountains National Park - Forest trail**

Glass House Mountain National Park contains 60 km of Horse Trail Network but a larger network is spread through the Forest Reserve and State Forest around the Park. Tibrogargan day use area was selected because it is the starting and ending point of the Trachyte circuit. The bushwalk through this circuit runs next to the Horse Riding Trail Network and intersects the HTN at four points. The location has picnic facilities and is mainly used by bushwalkers, climbers and picnickers. The visitor survey was conducted over two days: Saturday the October 15<sup>th</sup> and Sunday the October 16<sup>th</sup>.

#### **Site 7. D’Aguilar National Park (North)- Forest trail/drives**

D’Aguilar National Park (North, also known as Mount Mee section) contains 31 km of the HTN. Motorised activities, including trail bike riding and four wheel driving are permitted in this site. The Gantry day use area was selected because the area is likely to be used by most of the visitors to the park as it has picnic facilities and is the starting point of two main walking trails (Fig. 1). The visitor survey was conducted during two days: Sunday 23<sup>rd</sup> and Saturday 29<sup>th</sup> October 2011.

Table 2: Dates, number of hours and number of respondents across the 7 sites surveyed.

Sites	Dates	# of hours	# of respondents
Site 1	April 22 <sup>nd</sup> , 23 <sup>rd</sup> , 24 <sup>th</sup> , 26 <sup>th</sup> & May 1 <sup>st</sup> , 2 <sup>nd</sup>	56	294
Site 2	September 17 <sup>th</sup> & 18 <sup>th</sup>	27	113
Site 3	September 24 <sup>th</sup>	7	2
Site 4	September 24 <sup>th</sup> & 25 <sup>th</sup>	23	74
Site 5	October 1 <sup>st</sup> & 2 <sup>nd</sup>	37	74
Site 6	October 15 <sup>th</sup> & 16 <sup>th</sup>	16	109
Site 7	October 23 <sup>rd</sup> & 29 <sup>th</sup>	15	58
Total	17 days	181 hours	724 people

#### ***Response rate and activities undertaken by respondents***

From a total of 924 users approached, 724 agreed to complete the survey resulting in an average response rate of 79%. More than 14 activities were undertaken by respondents. The only activity conducted across all sites was bushwalking (Fig. 2). Where mountain biking is permitted (four sites), it was popular, with 261 riders surveyed. In three sites horse riders were seen and interviewed, with a total of five out of six horse riders completing the survey (Fig. 2).

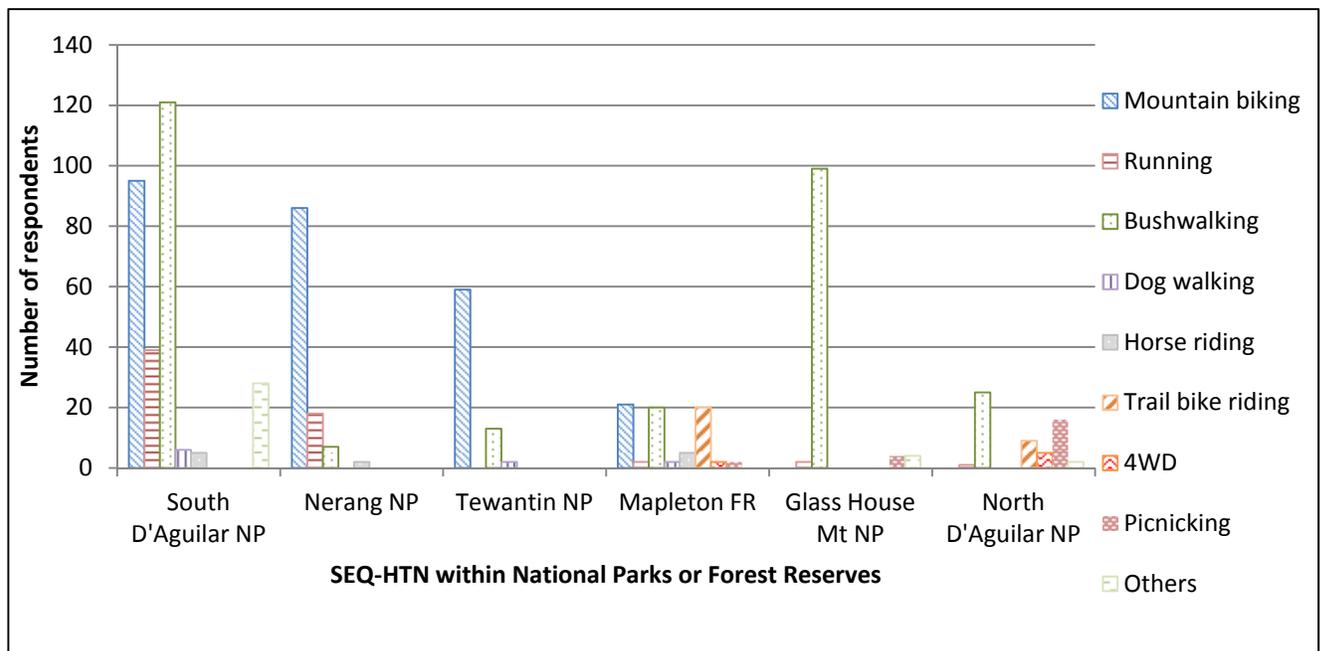


Figure 2. Activities undertaken by the 724 users surveyed across 7 sites across the SEQ-HTN.

### *Data entry and analysis of the visitor surveys*

Data from the first site in D’Aguilar NP (South) were entered into excel spreadsheets, and cross checked for inconsistencies in data entry and survey completion. A total of 294 visitors were interviewed, and only 6 questionnaires were excluded from the sample due to missing data. The total sample of 288 cases was then transferred into the statistical package SPSS V17. With a total of 280 variables per questionnaire and 80,640 separate data points, it took 15 full working days to enter all the data.

An initial analysis of this data has been completed using Chi-squared analysis and ANOVA to identify differences among user groups. The analysis specifically tested if there were differences in demographic data, usage patterns and attitudes about other user groups/activities among the three most common types of users: runners, mountain bikers and bushwalkers. Further analysis will be conducted to determine attitudes of visitors at this site to the change in status of the site.

Data from the other sites is currently being entered into Excel. This will involve entering and checking over 120,000 data points. The data will be used to determine:

1. If the patterns and experiences of visitors in the first site apply more generally to the SEQ-HTN.
2. How attitudes of visitors relates to demographics, and how other visitors affected their experiences.
3. How visitor values affect their attitudes to other users.

This will be done using a range of quantitative and qualitative methods. Quantitative /statistical analysis including Chi-squared analysis, r-squared, ANOVA and a range of

ordinations and nesting methods with t and z tests will be used to ensure robustness. If exploratory data analysis confirms that it is necessary, we will also undertake a factor analysis.

In addition, community catchment maps for each site will be produced using Arc GIS 10.0 based on data collected such as distance travelled and frequency of visit. A map of the community catchment has already been generated for the first site (see below).

### ***PRELIMINARY RESULTS FROM THE FIRST SITE:***

#### ***Demographics***

Visitors surveyed in D’Aguilar National Park (South) on the “South Boundary Rd” forest trail participated in 14 different activities: bushwalking (121 people), mountain bike riding (95), running (39), dog walking (6), horse riding (5), bird watching (4), nature encounter (4), volunteering (3), socialising (2), picnicking (2), conservation (1), fishing (1), praying (1) and scenic driving (1) (Fig. 3).

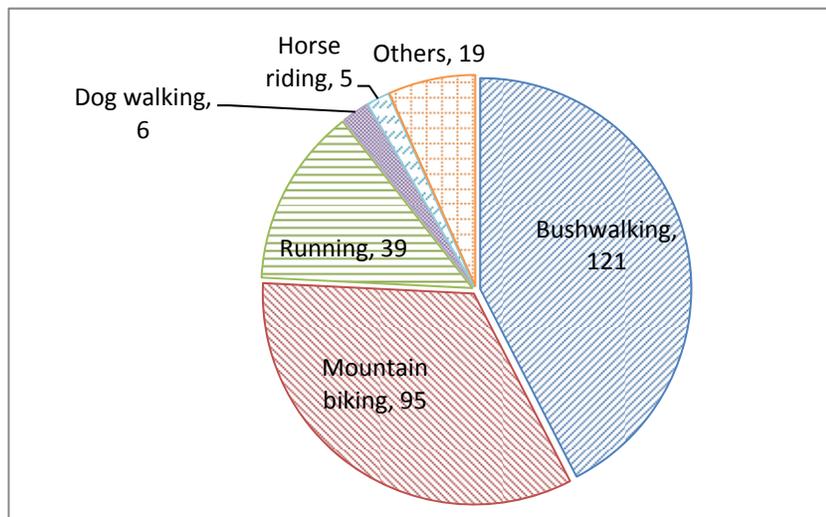


Figure 3. Number of respondents per activity in Site 1 “South Boundary Rd” forest trail within D’Aguilar NP (South).

More men (71%) than women (29%) used the site with most people between 25 to 54 years old (86%) (Fig. 4). All activities were undertaken predominantly by people with tertiary/university qualifications (82%), with only 2% of those surveyed without secondary education.

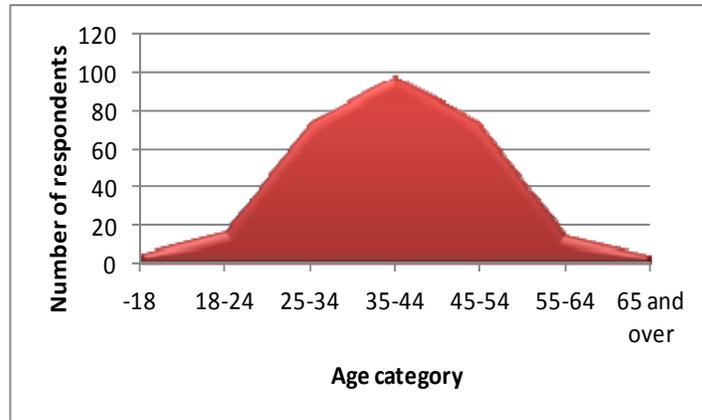


Figure 4. Age of respondents surveyed at Site 1: “South Boundary Rd” forest trail within South D’Aguilar NP.

***Spatial and temporal characteristics***

The average distance that visitors travelled to the HTN at Site 1 was 16 km (min 50 metres, max 60 km). Horse riders, picnickers and dog walkers travelled less than 7 km, while people visiting to encounter nature, bird watching, fishing or bushwalking travelled more than 18 km. Private cars were the preferred mean of transportation for all users (74%). Only 26% of visitors came to the site by other means of transportation including cycling (16%), walking (5%) or others (5%). A preliminary map representing the community catchment of South D’Aguilar NP (based on the average distance travelled by regular park visitors) is shown in Figure 5.

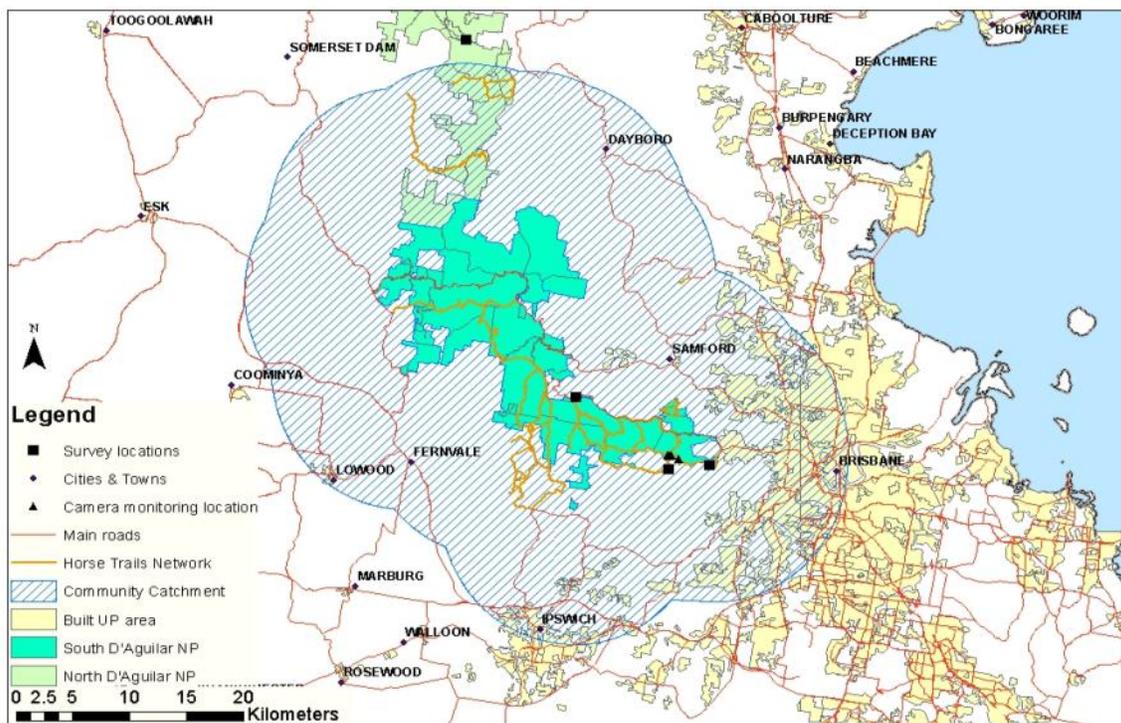


Figure 5. Community catchment based on the average distance (12 km) travelled by users visiting the HTN within South D’Aguilar site on a weekly basis or more than five times a year.

Most people surveyed (63%) were frequent users of the HTN, coming on a weekly basis (40%) or more than 5 times a year (23%) and only 21% were visiting the site for the first time. The most frequent visitors (weekly basis) were mountain bikers (57%) followed by hikers (30%) and runners (18%). The few horse riders interviewed were also frequent visitors. Nearly all respondents (85%) visit the site on weekends.

Overall, almost half of the people came to the HTN with friends or relatives (48%), and only 16% on their own or as an adult couple (15%). People visited the HTN in groups between three to five people (40%), in pairs (36%) and 20% went alone. The duration of the visit differed among the users. Hikers spent normally all day in the Park/Reserve while the others spent less than four hours. Dog walkers spent the shortest time in the Park/Reserve, with an average visit of less than two hours.

Motivations for the visit was principally to get some exercise (71%), followed by engaging in recreational activities (41%), enjoying nature and outdoors (39%), and for adventure or challenge (40%).

Nearly all participants (92%) have encountered other visitors. All participants reported a high number of encounters with users practicing the same activity that they were involved in. Correspondingly, the users with the highest number of encounters were mountain bikers (88%), followed by hikers (87%), and runners (78%). The number of horse riders encounters was high compared to the low number of horse riders actually seen during the surveys. For example, 121 users (46%) had encountered horse riders, while just 5 horse riders were surveyed during the six days. Although motorised activities are banned in D'Aguiar NP (South), 20% of respondents had encountered trail bike riders and 2% people using four wheel drive vehicles.

### ***Interactions between groups***

Many visitors (60%) were not affected by other users, activities or behaviours. For those who were affected (40%), 34% were positively affected and 27% negatively affected by other activities (Table 3)<sup>1</sup>. The only activities often considered by users to be negatively or strongly negatively affecting them were trail bike riding and four wheel driving (Table 3). All other activities were considered to be neutrally, positively or strongly positively affecting a visitor experience (Table 3). Although there was neutral or positive perception of respondents to non motorized activities, visitors considered that they have some negative impacts. The most cited impacts of any activity by respondents were damage to plants or habitat, frighten wildlife, startle people, make too much noise and potential collisions (Fig. 6).

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<sup>1</sup> Due to the type and characteristics of the questions regarding perceptions, the adding of the percentages can be less or more than 100%.

Table 3. Mean ( $\pm$  standard error) of the effect of those undertaking other activity on peoples experience of the Park. The number shows the likert scale values ranked from -2 (strongly negative), to +2 (strongly positive). Values in pink indicate activities that were seen as having negative effects on other users.

		Mountain biking	Horse riding	Bush walking	Running	Picnicking	Dog walking	Trail bike riding	4WD
User Groups perceptions	Mountain biking	1.7 $\pm$ 0.1	0.5 $\pm$ 0.2	0.9 $\pm$ 0.2	0.9 $\pm$ 0.2	0.8 $\pm$ 0.2	0.3 $\pm$ 0.2	-1.5 $\pm$ 0.1	-1.2 $\pm$ 0.2
	Bushwalking	0.5 $\pm$ 0.1	0.4 $\pm$ 0.1	1.1 $\pm$ 0.1	0.9 $\pm$ 0.1	0.8 $\pm$ 0.1	0.6 $\pm$ 0.2	-0.5 $\pm$ 0.2	-0.7 $\pm$ 0.2
	Running	0.8 $\pm$ 0.3	0.9 $\pm$ 0.2	1.3 $\pm$ 0.2	1.4 $\pm$ 0.2	0.9 $\pm$ 0.2	0.9 $\pm$ 0.3	-1.0 $\pm$ 0.3	-1.1 $\pm$ 0.2
	Bird watching	-0.3 $\pm$ 0.3	0 $\pm$ 0.4	0.2 $\pm$ 0.5	0 $\pm$ 0.4	0.5 $\pm$ 0.3	-1.0 $\pm$ 0.0	-1.7 $\pm$ 0.3	-1.3 $\pm$ 0.3
	Conservation	2.0 $\pm$ 0	0 $\pm$ 0	1.0 $\pm$ 0	1.0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0	-2.0 $\pm$ 0	-2.0 $\pm$ 0
	Dog walking	0 $\pm$ 0.7	1.0 $\pm$ 0	0 $\pm$ 0.6	-1.0 $\pm$ 0				
	Horse riding	-0.5 $\pm$ 0.5	0 $\pm$ 0	0 $\pm$ 0	0.5 $\pm$ 0.5	0 $\pm$ 0	0 $\pm$ 0	-2.0 $\pm$ 0	-2.0 $\pm$ 0
	Nature enc.	0.5 $\pm$ 0.5	1.5 $\pm$ 0.5	2.0 $\pm$ 0	2.0 $\pm$ 0	2.0 $\pm$ 0	1.0 $\pm$ 0.6	-2.0 $\pm$ 1.0	-2.0 $\pm$ 0.6
	Picnic	2.0 $\pm$ 0	2.0 $\pm$ 0	2.0 $\pm$ 0	2.0 $\pm$ 0	2.0 $\pm$ 0.0	2.0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0
	Socialising	0 $\pm$ 0	1.0 $\pm$ 0	1.0 $\pm$ 0	1.0 $\pm$ 0	1.0 $\pm$ 0.0	1.0 $\pm$ 0	0 $\pm$ 0	0 $\pm$ 0
	Volunteering	0 $\pm$ 0	2.0 $\pm$ 0.0	2.0 $\pm$ 0	2.0 $\pm$ 0	2.0 $\pm$ 0.0	-1.0 $\pm$ 0	0 $\pm$ 0	-2.0 $\pm$ 0
Total		0.9 $\pm$ 0.1	0.6 $\pm$ 0.1	1.1 $\pm$ 0.1	1.0 $\pm$ 0.1	0.8 $\pm$ 0.1	0.5 $\pm$ 0.1	-0.9 $\pm$ 0.1	-1.0 $\pm$ 0.1

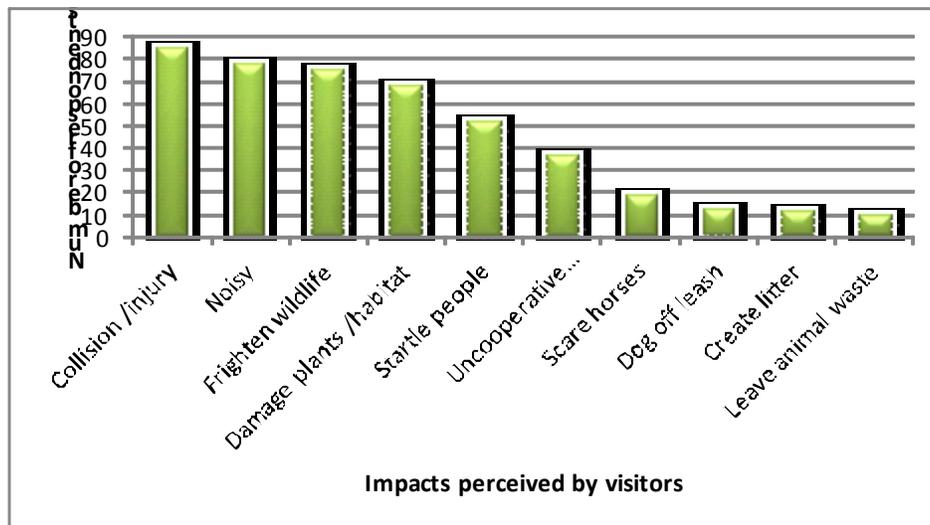


Figure 6. Negative impacts perceived by respondents for all the activities combined (mountain biking, horse riding, bush walking, running, picnicking, dog walking, trail bike riding and 4WD).

### ***IMPLICATIONS OF INITIAL RESULTS FROM THE VISITOR SURVEYS***

Below are implications for the SEQ-HTN from the analysis of the data for the first site and preliminary results for the other sites.

1. Across all sites there appears to be very low levels of use of the SEQ-HTN by horse riders with only 12 respondents out of 724 people surveyed riding horses. This pattern of use, including the high levels of use for other activities such as bushwalking and mountain biking is consistent with the results of the camera monitoring program being conducted concurrently with this study by DERM.
2. Due to the low number of horse riders, differences in demographic data, usage patterns and attitudes about other user groups/activities between horse riders and others cannot be compared statistically, but can be compared descriptively.
3. In the first site perceptions of non-motorised activities were positive or neutral. Only two users had negative perception towards dog walking which is banned in the SEQ-HTN. A high number of visitors (47%) remembered seeing horse riders, but only 4% reported negative experience with horse riders. Most users (43%) had slightly positive perceptions of horse riding (mean =  $0.6 \pm 0.1$ ).
4. In contrast to the positive perception towards horse riding, mountain biking, running, hiking and many other authorised activities, many visitors had negative perceptions towards 4WD and trail bikes, which are not authorised in Site 1.
5. Further analysis including data collected in sites where motorised activities are authorised will be undertaken to see if the negative perceptions may be associated with an activity being unauthorised, or due to the nature of the activity itself.
6. Data from the other sites will also be analysed to see if attitudes to other users relates to values of users, and if the patterns found in Site 1 apply more broadly to the SEQ-HTN

The visitor survey research will form the basis of two chapters of Sebastian Rossi's PhD thesis. An initial paper based on the results from the first site (SEQ-HTN within D'Aguilar NP, southern section) is in draft form and is anticipated to be submitted to an international scientific journal for review early in 2012.

The next step in the research on visitor attitudes is to analyse:

1. Visitor attitudes to the change in status (information from extended survey instrument administered in SEQ-HTN in Site 1 in South D'Aguilar NP).
2. If the results from the first site (SEQ-HTN within South D'Aguilar NP), apply more generally to visitors across the other sites in the SEQ-HTN.
3. If attitudes and values are related among and within user groups.
4. Assess the perceptions of stakeholder groups towards the SEQ-HTN.
5. Survey local communities to assess perceptions towards the SEQ-HTN.

Assessing the perceptions of stakeholder groups will be undertaken in the first half of 2012, and the survey of local communities in the second half of 2012. This will allow completion of the reports to DERM within 2 years of commencing the research.

## **METHODOLOGY TO ASSESS THE PERCEPTIONS OF STAKEHOLDER GROUPS (A2)**

This research addresses the second objective of the tender: to assess perceptions of stakeholder groups. Interviews will be conducted to provide qualitative information about their perceptions, and supplement the visitor data in the first half of 2012. It may highlight issues about the impacts of the network not captured through the park user survey.

In-depth interviews development: In-depth interviews using open-ended questions will be developed using authoritative methods in social science designed to complement the visitor survey. It will include the same/similar topics e.g. socio-demographic data, attitudes to other user groups, values, attitudes to the change in status of the area, demographic data. It will be submitted for ethics clearance from Griffith University, and pre-tested using three members of stakeholder groups.

Selection of stakeholder groups and individuals to survey: Based on discussions with DERM and others, potential stakeholder groups will be identified and contact details obtained. Potential stakeholder groups already identified are conservation organisations, horse riding groups, mountain biking groups, bush walking groups and bird watching organisations. Leaders/heads of these groups will be approached, and then a snowball method used to identify additional members of groups and stakeholder groups.

Surveying: Once identified, people will be contacted by phone and/or e-mail with general information about the project and a request to be interviewed. Where there is no response, they will be followed up two times, and if contacted either unavailable or unwilling to be interviewed, they will be asked who else might be appropriate to contact from that stakeholder group. Where there is agreement for an interview, a time will be arranged. Each interview is anticipated to take around 25 minutes. Interviews will be conducted using Skype, so, they can be recorded with the permission of the interview. During the interview written notes will also be made of responses.

Data transcription and analysis: Quantitative data will be recorded in excel, including demographic information, stakeholder group etc. Qualitative data from the interviews will be analysed by transcribing the interviews and then analysing them using the program N-VIVO. This program/method is widely used in the social science for analysis of interview data. It can be used to thematically code and then search the transcripts for keywords and concepts and used to map concept associations.

Output-Report: A report describing the purpose, background, methods, results, discussion, conclusions and recommendations including for an ongoing program to monitor stakeholder social impacts of the SEQ-HTN will be provided to DERM. It will include the raw data, tables and figures showing results, a detailed reference list, and will be a minimum of 20 pages of text and figures. It is proposed that this research will also form the basis of one or more chapters of Sebastian Rossi's PhD thesis, and may be also produced as part of one or more academic papers. However, these academic outputs are not guaranteed outputs of the tender.

## ***METHODOLOGY FOR SURVEYS OF LOCAL COMMUNITIES (B1)***

To assess the impacts of the horse trail network on the broader community, surveys of local communities will be undertaken including park neighbours to provide qualitative and quantitative information about any off-site social impacts of the SEQ-HTN in the second half of 2012. This forms the third part of the research required in the tender.

Approach: The sampling approach taken for the community survey will be similar to that used successfully for assessing community attitudes to the Wet Tropics World Heritage Area (e.g. Bentrupperbaumer J.M. & Reser J. P. 2006. *The Role of the Wet Tropics World Heritage Area in the Life of the community*. Rainforest CRC, James Cook University, Cairns).

Survey Development: A modified form of the visitor survey will be used for the community survey. It will include questions about (1) park usage, (2) attitudes about different park activities, (3) geographical data (4) attitudes about the change of status of parts of the area (State Forest / Forest Reserve to National Park) and (4) general demographic data.

Selection of the community catchment for surveying: Data from the visitor survey will be used to generate GIS maps of the 'catchment community' – that is the main region from which local people access a park and/or contains people who may be directly affected by a park. These maps will then be used to select residences to be surveyed using a stratified random approach.

Surveying: A package including an introductory letter, a modified form of the visitor survey and a return envelope will either be placed in mail boxes outside of residences, or mailed to residences. Potential methods to increase the response rate such as follow up doorknocking, repeat mail outs and/or use of lotteries will be examined. The aim is to obtain between 300-500 responses, with a minimum of 20 per park. A preliminary postcard may be sent to residents to introduce the project to maximise returns and hence the response-rate.

Data entry and analysis: Data will initially be entered into excel spreadsheets, and then as required, transferred into the statistical package SPSS and the ordination package Primer. Data will be analysed using a range of quantitative and qualitative methods.

Quantitative/statistical analysis will include chi-squared analysis, ANOVA and a range of ordination and nesting methods. Specific issues that will be addressed in the analysis include obtaining profiles of catchment community including demographic data, usage patterns, and attitudes about park user groups/activities. It will include characterising and comparing park users and those who do not use the park, including motivations, opportunities and attitudes. Other issues that can be addressed in the data analysis for those who visit the park include comparing park usage patterns as found for the local community with the results from the visitor surveys within the Parks.

Output-Report. A report describing the purpose, background, methods, results, discussion, conclusions and recommendations including for an ongoing program to monitor the catchment community social impacts of the SEQ-HTN will be provided to DERM. It will

include the raw data, tables and figures showing results, a detailed reference list, and will be a minimum of 30 pages of text and figures. It is proposed that this research will also form the basis of one or more chapters of Sebastian Rossi's PhD thesis, and may be also produced as part of one or more academic papers. However, these academic outputs are not guaranteed outputs of the tender.

### ***CONCLUSIONS***

1. The number and type of activities undertaken is highly variable within the SEQ-HTN, with hiking common to all sites surveyed, but mountain biking was the most popular. There are few people using the SEQ-HTN for horse riding.
2. Based on the results from site 1 most users are local, and use the trails often. They are mostly university educated men between the ages of 25 and 55, who travel to the site by car.
3. Overall, they have positive or neutral perceptions towards activities permitted on the SEQ-HTN at Site 1 and negative or strongly negative perceptions towards unauthorised activities.

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**APPENDIX 1: Approved survey instrument. Core survey**

**TO BE COMPLETED BY THE INTERVIEWER**

1. Date of interview:...../...../..... Time of interview: .....
2. What is the name of the Park you are visiting today?  
.....
3. Park address: .....  
(e.g. nearest street address, trail name, grid references, etc.)
4. How often do you visit this Park? (Please, tick one box only)
 

On a weekly basis ..... <input type="checkbox"/>	Once every 1 to 2 years ..... <input type="checkbox"/>
More than 5 times a year ..... <input type="checkbox"/>	Once every 3 to 5 years ..... <input type="checkbox"/>
2 to 5 times a year ..... <input type="checkbox"/>	First visit ..... <input type="checkbox"/>
Once a year ..... <input type="checkbox"/>	
5. What day of the week do you normally visit?  
 Everyday.....                      Weekday .....                      Weekend.....
6. How long did/will you spend in the Park on this visit? (Please, tick one box only)
 

Short stop (under 2 hours) ..... <input type="checkbox"/>	Overnight (how many nights?) ... <input type="checkbox"/>
Half day (2 to 4 hours) ..... <input type="checkbox"/>	
All day (5 to 8 hours)..... <input type="checkbox"/>	-----
7. What will/did you do in the Park today? (Please, tick as many as apply)
 

Visit Aboriginal/cultural sites ..... <input type="checkbox"/>	Fishing..... <input type="checkbox"/>
Picnic/BBQ ..... <input type="checkbox"/>	Trail bike riding..... <input type="checkbox"/>
Swimming ..... <input type="checkbox"/>	Sightseeing..... <input type="checkbox"/>
Sports/games (e.g. volleyball, football) .... <input type="checkbox"/>	Bird watching..... <input type="checkbox"/>
Socialising ..... <input type="checkbox"/>	Photography/painting/drawing..... <input type="checkbox"/>
Scenic drive ..... <input type="checkbox"/>	Running/jogging ..... <input type="checkbox"/>
Hiking/bushwalking ..... <input type="checkbox"/>	Four wheel driving (4WD)..... <input type="checkbox"/>
Kayaking/canoeing/rafting ..... <input type="checkbox"/>	Religious purposes ..... <input type="checkbox"/>
Wildlife viewing/nature study ..... <input type="checkbox"/>	Nature encounter ..... <input type="checkbox"/>
Cycling/mountain biking riding ..... <input type="checkbox"/>	Volunteering ..... <input type="checkbox"/>
Horse riding ..... <input type="checkbox"/>	Dog walking..... <input type="checkbox"/>
Camping..... <input type="checkbox"/>	Other (please state):..... <input type="checkbox"/>
Guided tour..... <input type="checkbox"/>	
8. In question 7 you identified activities you do in the Park. Which of those activities are most important?
 

Activity 1 _____	(most important)
Activity 2 _____	(2nd most important)
Activity 3 _____	(3rd most important)
9. During the past month, have you encountered any of the following users in this or any other park? (Please, tick as many as apply)
 

Mountain bike riders ..... <input type="checkbox"/>	Trail bike riders ..... <input type="checkbox"/>
Horse riders ..... <input type="checkbox"/>	Four wheel drivers (4WD) ..... <input type="checkbox"/>
Hikers/bushwalkers ..... <input type="checkbox"/>	Others (please specify) ..... <input type="checkbox"/>
Runners/Joggers ..... <input type="checkbox"/>	
Picnickers ..... <input type="checkbox"/>	-----
Dog Walkers ..... <input type="checkbox"/>	

10. What are/were the MAIN purposes for your visit to this Park? (Please, tick as many as apply)

- |   |                          |                                       |                          |
|---|--------------------------|---------------------------------------|--------------------------|
| To rest and relax .....                     | <input type="checkbox"/> | To see the sights.....                | <input type="checkbox"/> |
| To learn about native animals and plants .. | <input type="checkbox"/> | To enjoy nature and the outdoors..... | <input type="checkbox"/> |
| To have a break from everyday city life ... | <input type="checkbox"/> | To get some exercise.....             | <input type="checkbox"/> |
| To engage in recreational activities .....  | <input type="checkbox"/> | For adventure and/or a challenge..... | <input type="checkbox"/> |
| To holiday .....                            | <input type="checkbox"/> | other: (please specify).....          | <input type="checkbox"/> |
| To learn about cultural heritage .....      | <input type="checkbox"/> |                                       |                          |
| To spend time with friends and family ..    | <input type="checkbox"/> |                                       |                          |

11. Do the activities or behaviours of other park users affect your experience of visiting this Park?

- Yes  No  If NO, Please jump to question 14.

12. Identify how positively, neutrally or negatively these user activities impact upon you.

(Please, tick one box per activity)

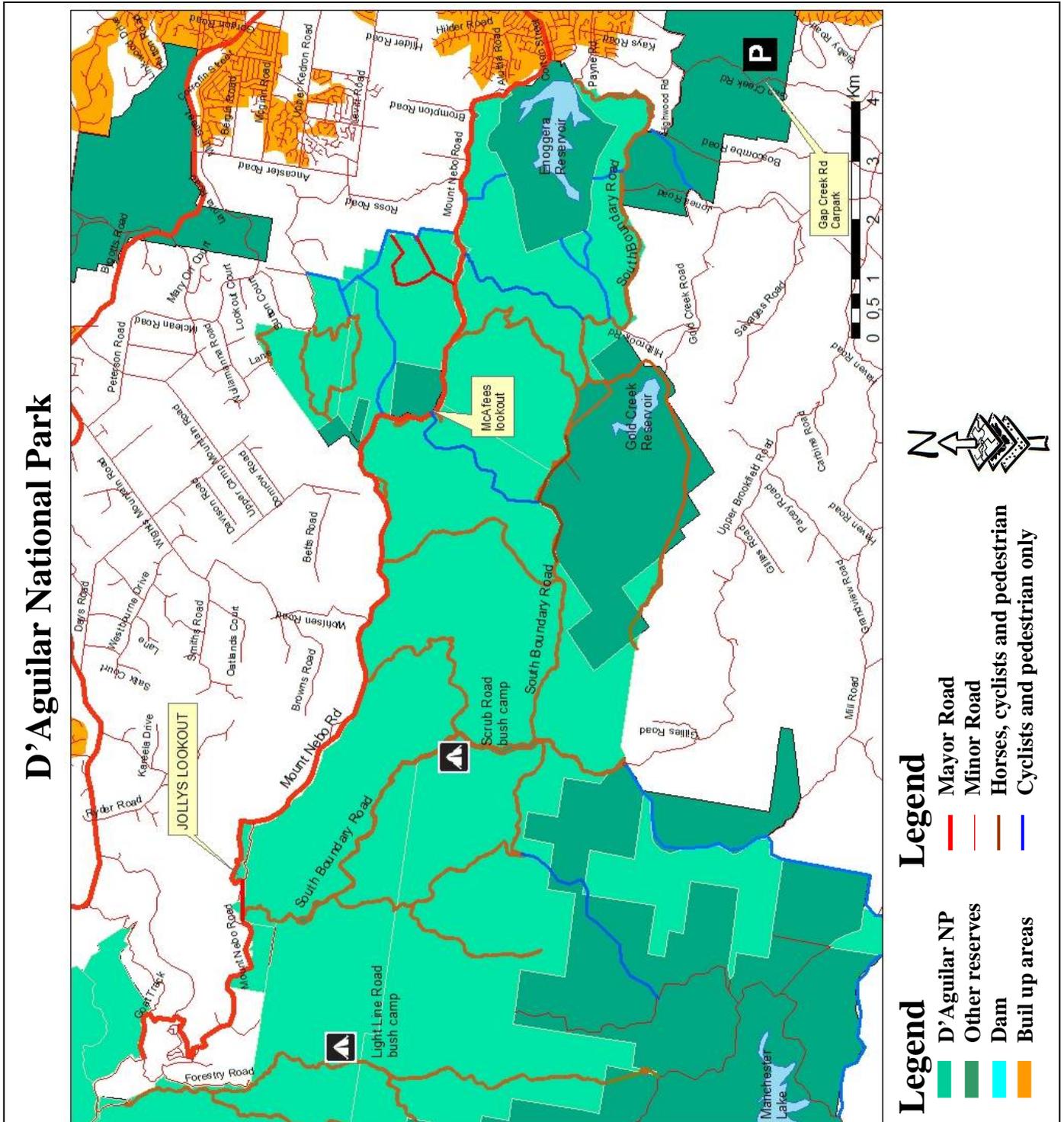
	Strongly positive	Positive	Neutral	Negative	Strongly negative
a) Mountain biking riding	<input type="checkbox"/>				
b) Horse riding	<input type="checkbox"/>				
c) Hiking/bushwalking	<input type="checkbox"/>				
d) Running / jogging	<input type="checkbox"/>				
e) Picnicking	<input type="checkbox"/>				
f) Dog walking	<input type="checkbox"/>				
g) Trail bike riding	<input type="checkbox"/>				
h) Four wheel driving (4WD)	<input type="checkbox"/>				
h) Other (Please describe)	<input type="checkbox"/>				

13. For any activity you selected as negative or strongly negative in Question 12, why are they affecting your experience? (Please, tick as many as apply)

	Damage plants or habitat	Uncooperative behaviour (e.g. rude, etc.)	Frighten wildlife	Startle people	Make too much noise	Create litter	Scare horses	Leave animal wastes	Dog off leash	Potential collisions/Injury	Other (please specify).....
a) Mountain biking riding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Horse riding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Hiking/bushwalking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Running / jogging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Picnicking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Dog walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Trail bike riding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Four wheel driving (4WD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Other (Please describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

14. Please, indicate on the map:

- With a circle, the areas of the Park where you spent time on this visit.
- With X, mark the areas of the Park, where you consider or think that the problems of question 12 are happening.



**15.** Are there any activities that may be permitted in this Park that you feel should be prohibited?

*(Please, tick as many as apply)*

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| Visit Aboriginal/cultural sites .....          | <input type="checkbox"/> | Fishing.....                            | <input type="checkbox"/> |
| Picnic/BBQ .....                               | <input type="checkbox"/> | Trail bike riding.....                  | <input type="checkbox"/> |
| Swimming .....                                 | <input type="checkbox"/> | Sightseeing.....                        | <input type="checkbox"/> |
| Sports/games (e.g. volleyball, football) ..... | <input type="checkbox"/> | Bird watching.....                      | <input type="checkbox"/> |
| Socialising .....                              | <input type="checkbox"/> | Photography/painting/drawing.....       | <input type="checkbox"/> |
| Scenic drive .....                             | <input type="checkbox"/> | Physical exercise (e.g. jog, yoga)..... | <input type="checkbox"/> |
| Hiking/bushwalking .....                       | <input type="checkbox"/> | Four wheel driving (4WD).....           | <input type="checkbox"/> |
| Kayaking/canoeing/rafting .....                | <input type="checkbox"/> | Religious purposes .....                | <input type="checkbox"/> |
| Wildlife viewing/nature study .....            | <input type="checkbox"/> | Volunteering .....                      | <input type="checkbox"/> |
| Cycling/mountain biking riding .....           | <input type="checkbox"/> | Dog walking.....                        | <input type="checkbox"/> |
| Horse riding .....                             | <input type="checkbox"/> | Other ( <i>please state</i> ): .....    | <input type="checkbox"/> |
| Camping.....                                   | <input type="checkbox"/> | -----                                   |                          |
| Guided tour.....                               | <input type="checkbox"/> |   |                          |

A few questions about yourself

**16.** Are you?

- Male  Female

**17.** To which age group do you belong?

- |               |                          |                |                          |
|---------------|--------------------------|----------------|--------------------------|
| Under 18..... | <input type="checkbox"/> | 45 – 54.....   | <input type="checkbox"/> |
| 18 – 24.....  | <input type="checkbox"/> | 55 – 64.....   | <input type="checkbox"/> |
| 25 - 34 ..... | <input type="checkbox"/> | 65 and over... | <input type="checkbox"/> |
| 35 – 44 ..... | <input type="checkbox"/> |                |                          |

**18.** How did you travel to the Park today? *(Please, tick one box only)*

- |                                      |                          |                                      |                          |
|--------------------------------------|--------------------------|--------------------------------------|--------------------------|
| Private car / truck / 4WD / van..... | <input type="checkbox"/> | Walk .....                           | <input type="checkbox"/> |
| Taxi .....                           | <input type="checkbox"/> | Jog / run .....                      | <input type="checkbox"/> |
| Public transportation .....          | <input type="checkbox"/> | Horseback .....                      | <input type="checkbox"/> |
| Group transport.....                 | <input type="checkbox"/> | Wheelchair .....                     | <input type="checkbox"/> |
| Motorcycle / scooter .....           | <input type="checkbox"/> | Other ( <i>please specify</i> ) .... | <input type="checkbox"/> |
| Bicycle .....                        | <input type="checkbox"/> | -----                                |                          |

**19.** How far is this park from your home?

----- metres                      ----- kilometres

**20.** What is the highest level of education you have completed? *(Please, tick one box only)*

- |                             |                          |                           |                          |
|-----------------------------|--------------------------|---------------------------|--------------------------|
| Primary/some secondary..... | <input type="checkbox"/> | Vocational/technical..... | <input type="checkbox"/> |
| Completed secondary.....    | <input type="checkbox"/> | Tertiary/university.....  | <input type="checkbox"/> |

**21.** Including yourself, how many people are in your travel group today?

- |                                      |       |   |       |
|--------------------------------------|-------|---|-------|
| Number of adults (18 and over) ..... | ----- | No. of children (aged 4 or under) ..... | ----- |
| No. of children (aged 5 - 17) .....  | ----- |   |       |

**22.** Which of the following best describes you and your travel group? *(Please, tick one box only)*

- |   |                          |                                       |                          |
|---|--------------------------|---------------------------------------|--------------------------|
| Travelling by yourself .....                    | <input type="checkbox"/> | Business associates.....              | <input type="checkbox"/> |
| Adult couple (18 yrs and older) .....           | <input type="checkbox"/> | School/University/Sporting group..... | <input type="checkbox"/> |
| Young family (with children under 6 yrs) ....   | <input type="checkbox"/> | Tour group.....                       | <input type="checkbox"/> |
| Mid-life family (with children 6 - 17 yrs) .... | <input type="checkbox"/> | Other <i>(please specify)</i> .....   | <input type="checkbox"/> |
| Mature couple, no children at home .....        | <input type="checkbox"/> | -----                                 |                          |
| With friends and/or relatives.....              | <input type="checkbox"/> |                                       |                          |

**23.** To help us determine the distance you live from the Park, what is the closest street intersection to your home?

----- AND -----

POSTCODE: -----

**24.** How much time does it normally take you to get to this Park from your home? *Please, tick one box only)*

- |                               |                          |                                       |                          |
|-------------------------------|--------------------------|---------------------------------------|--------------------------|
| Less than 15 minutes .....    | <input type="checkbox"/> | Between 2 – 3 hours .....             | <input type="checkbox"/> |
| Between 15 – 30 minutes ..... | <input type="checkbox"/> | Between 3 – 5 hours .....             | <input type="checkbox"/> |
| Between 30 – 45 minutes ..... | <input type="checkbox"/> | More than 5 hours .....               | <input type="checkbox"/> |
| Between 45 – 60 minutes ..... | <input type="checkbox"/> | Other <i>(please specify)</i> : ..... | <input type="checkbox"/> |
| Between 1 – 2 hours .....     | <input type="checkbox"/> |                                       |                          |

**Thank you very much for your time and participation.**

**VISITOR SURVEY**

**APPENDIX 2: Approved survey instrument including change in status questions**

**TO BE COMPLETED BY THE INTERVIEWER**

1. Date of interview:...../...../..... Time of interview: .....
2. What is the name of the Park you are visiting today?  
.....
3. Park address: .....  
(e.g. nearest street address, trail name, grid references, etc.)
4. How often do you visit this Park? (Please, tick one box only)
 

On a weekly basis ..... <input type="checkbox"/>	Once every 1 to 2 years ..... <input type="checkbox"/>
More than 5 times a year ..... <input type="checkbox"/>	Once every 3 to 5 years ..... <input type="checkbox"/>
2 to 5 times a year ..... <input type="checkbox"/>	First visit ..... <input type="checkbox"/>
Once a year ..... <input type="checkbox"/>	
5. What day of the week do you normally visit?  
 Everyday.....                      Weekday .....                      Weekend.....
6. How long did/will you spend in the Park on this visit? (Please, tick one box only)
 

Short stop (under 2 hours) ..... <input type="checkbox"/>	Overnight (how many nights?) ... <input type="checkbox"/>
Half day (2 to 4 hours) ..... <input type="checkbox"/>	
All day (5 to 8 hours)..... <input type="checkbox"/>	-----
7. What will/did you do in the Park today? (Please, tick as many as apply)
 

Visit Aboriginal/cultural sites ..... <input type="checkbox"/>	Fishing..... <input type="checkbox"/>
Picnic/BBQ ..... <input type="checkbox"/>	Trail bike riding..... <input type="checkbox"/>
Swimming ..... <input type="checkbox"/>	Sightseeing..... <input type="checkbox"/>
Sports/games (e.g. volleyball, football) .... <input type="checkbox"/>	Bird watching..... <input type="checkbox"/>
Socialising ..... <input type="checkbox"/>	Photography/painting/drawing..... <input type="checkbox"/>
Scenic drive ..... <input type="checkbox"/>	Running/jogging ..... <input type="checkbox"/>
Hiking/bushwalking ..... <input type="checkbox"/>	Four wheel driving (4WD)..... <input type="checkbox"/>
Kayaking/canoeing/rafting ..... <input type="checkbox"/>	Religious purposes ..... <input type="checkbox"/>
Wildlife viewing/nature study ..... <input type="checkbox"/>	Nature encounter ..... <input type="checkbox"/>
Cycling/mountain biking riding ..... <input type="checkbox"/>	Volunteering ..... <input type="checkbox"/>
Horse riding ..... <input type="checkbox"/>	Dog walking..... <input type="checkbox"/>
Camping..... <input type="checkbox"/>	Other (please state):..... <input type="checkbox"/>
Guided tour..... <input type="checkbox"/>	
8. In question 7 you identified activities you do in the Park. Which of those activities are most important?  
 Activity 1 \_\_\_\_\_ (most important)  
 Activity 2 \_\_\_\_\_ (2nd most important)  
 Activity 3 \_\_\_\_\_ (3rd most important)
9. During the past month, have you encountered any of the following users in this or any other park? (Please, tick as many as apply)
 

Mountain bike riders ..... <input type="checkbox"/>	Trail bike riders ..... <input type="checkbox"/>
Horse riders ..... <input type="checkbox"/>	Four wheel drivers (4WD) ..... <input type="checkbox"/>
Hikers/bushwalkers ..... <input type="checkbox"/>	Others (please specify) ..... <input type="checkbox"/>
Runners/Joggers ..... <input type="checkbox"/>	
Picnickers ..... <input type="checkbox"/>	-----
Dog Walkers ..... <input type="checkbox"/>	

**VISITOR SURVEY**

**10.** What are/were the MAIN purposes for your visit to this Park? (*Please, tick as many as apply*)

- |   |                          |                                       |                          |
|---|--------------------------|---------------------------------------|--------------------------|
| To rest and relax .....                     | <input type="checkbox"/> | To see the sights.....                | <input type="checkbox"/> |
| To learn about native animals and plants .. | <input type="checkbox"/> | To enjoy nature and the outdoors..... | <input type="checkbox"/> |
| To have a break from everyday city life ... | <input type="checkbox"/> | To get some exercise.....             | <input type="checkbox"/> |
| To engage in recreational activities .....  | <input type="checkbox"/> | For adventure and/or a challenge..... | <input type="checkbox"/> |
| To holiday .....                            | <input type="checkbox"/> | other: ( <i>please specify</i> )..... | <input type="checkbox"/> |
| To learn about cultural heritage .....      | <input type="checkbox"/> |                                       |                          |
| To spend time with friends and family .     | <input type="checkbox"/> |                                       |                          |

**11.** Do the activities or behaviours of other park users affect your experience of visiting this Park?

- Yes  No  If NO, Please jump to question 14.

**12.** Identify how positively, neutrally or negatively these user activities impact upon you.  
(*Please, tick one box per activity*)

	Strongly positive	Positive	Neutral	Negative	Strongly negative
<b>a) Mountain biking riding</b>	<input type="checkbox"/>				
<b>b) Horse riding</b>	<input type="checkbox"/>				
<b>c) Hiking/bushwalking</b>	<input type="checkbox"/>				
<b>d) Running / jogging</b>	<input type="checkbox"/>				
<b>e) Picnicking</b>	<input type="checkbox"/>				
<b>f) Dog walking</b>	<input type="checkbox"/>				
<b>g) Trail bike riding</b>	<input type="checkbox"/>				
<b>h) Four wheel driving (4WD)</b>	<input type="checkbox"/>				
<b>h) Other (<i>Please describe</i>)</b>	<input type="checkbox"/>				

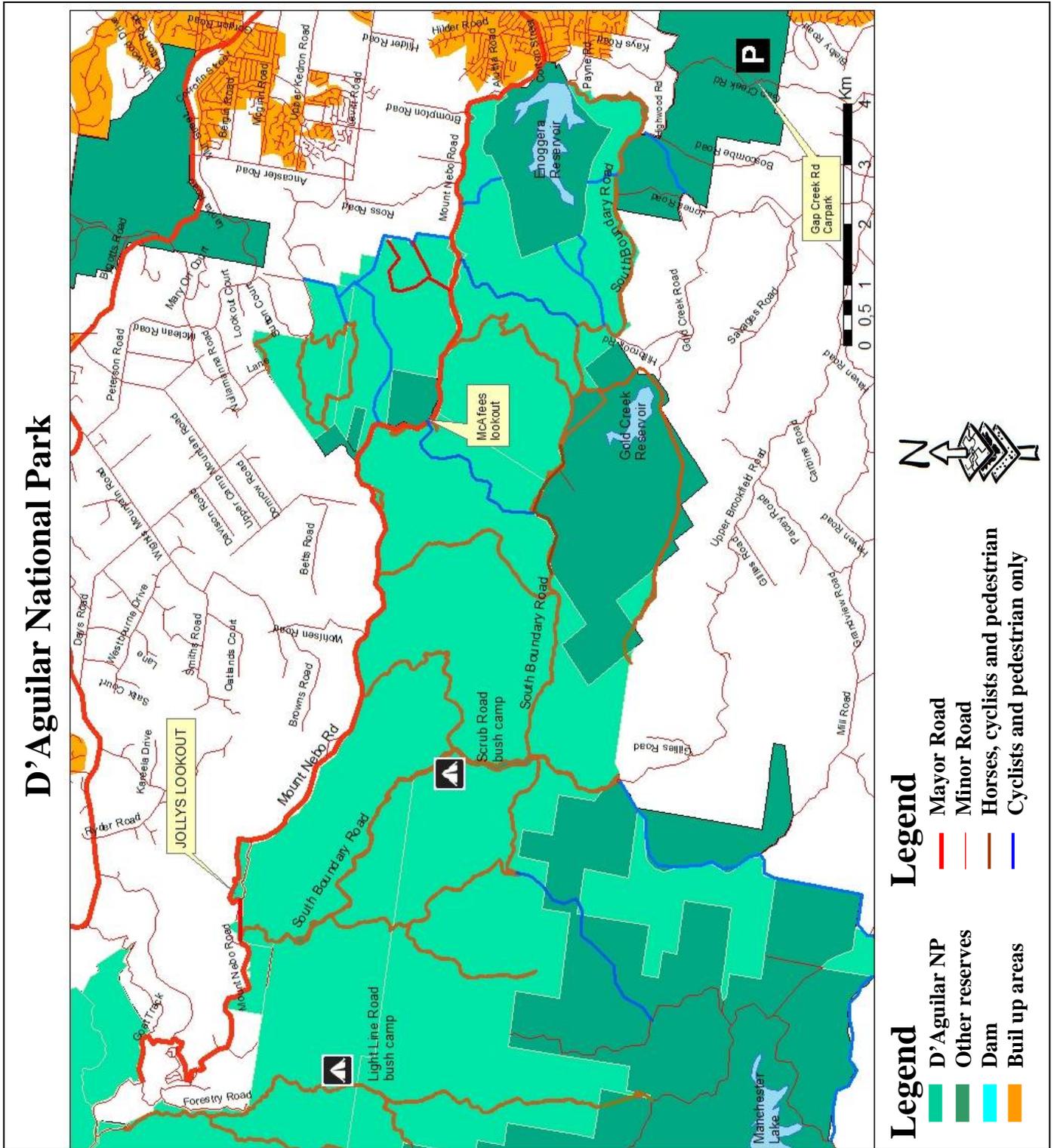
**13.** For any activity you selected as negative or strongly negative in Question 12, why are they affecting your experience? (*Please, tick as many as apply*)

	Damage plants or habitat	Uncooperative behaviour (e.g. rude, etc.)	Frighten wildlife	Startle people	Make too much noise	Create litter	Scare horses	Leave animal wastes	Dog off leash	Potential collisions/Injury	Other ( <i>please specify</i> ).....
<b>a) Mountain biking riding</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>b) Horse riding</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>c) Hiking/bushwalking</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>d) Running / jogging</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>e) Picnicking</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>f) Dog walking</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>g) Trail bike riding</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>h) Four wheel driving (4WD)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>h) Other (<i>Please describe</i>)</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**VISITOR SURVEY**

14. Please, indicate on the map:

- a. With a circle, the areas of the Park where you spent time on this visit.
- b. With X, mark the areas of the Park, where you consider or think that the problems of question 12 are happening.



**VISITOR SURVEY**

**15.** Are there any activities that may be permitted in this Park that you feel should be prohibited?  
(Please, tick as many as apply)

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| Visit Aboriginal/cultural sites .....          | <input type="checkbox"/> | Fishing.....                            | <input type="checkbox"/> |
| Picnic/BBQ .....                               | <input type="checkbox"/> | Trail bike riding.....                  | <input type="checkbox"/> |
| Swimming .....                                 | <input type="checkbox"/> | Sightseeing.....                        | <input type="checkbox"/> |
| Sports/games (e.g. volleyball, football) ..... | <input type="checkbox"/> | Bird watching.....                      | <input type="checkbox"/> |
| Socialising .....                              | <input type="checkbox"/> | Photography/painting/drawing.....       | <input type="checkbox"/> |
| Scenic drive .....                             | <input type="checkbox"/> | Physical exercise (e.g. jog, yoga)..... | <input type="checkbox"/> |
| Hiking/bushwalking .....                       | <input type="checkbox"/> | Four wheel driving (4WD).....           | <input type="checkbox"/> |
| Kayaking/canoeing/rafting .....                | <input type="checkbox"/> | Religious purposes .....                | <input type="checkbox"/> |
| Wildlife viewing/nature study .....            | <input type="checkbox"/> | Volunteering .....                      | <input type="checkbox"/> |
| Cycling/mountain biking riding .....           | <input type="checkbox"/> | Dog walking.....                        | <input type="checkbox"/> |
| Horse riding .....                             | <input type="checkbox"/> | Other (please state): .....             | <input type="checkbox"/> |
| Camping.....                                   | <input type="checkbox"/> | -----                                   |                          |
| Guided tour.....                               | <input type="checkbox"/> |   |                          |

Awareness and importance of the change in status of State Forests to National Parks.

**16.** Were you aware that some areas of state forest in South-Eastern Queensland have recently become National Parks?

- Yes  No  If NO, Please jump to question 19.

**17.** If Yes, how would you rate your level of your general knowledge about this change in status?  
(Please, tick one box only)

- |                             |                           |                             |                               |                          |
|-----------------------------|---------------------------|-----------------------------|-------------------------------|--------------------------|
| Not at all<br>knowledgeable | Slightly<br>knowledgeable | Moderately<br>knowledgeable | Considerably<br>knowledgeable | Very<br>knowledgeable    |
| <input type="checkbox"/>    | <input type="checkbox"/>  | <input type="checkbox"/>    | <input type="checkbox"/>      | <input type="checkbox"/> |

**18.** How important do you consider this change from State Forests to National Parks to be, in general? (Please, tick one box only)

- |                          |                          |                          |                           |                          |
|--------------------------|--------------------------|--------------------------|---------------------------|--------------------------|
| Not important            | Slightly<br>important    | Moderately<br>important  | Considerably<br>important | Very important           |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/> |

We would like to know your opinion about a number of issues concerning National Parks in south-east Queensland. Please tell us to what extent you support or oppose the issues outlined in the following questions.

**19.** To what extent do you support or oppose. (Please, tick one box per option)

- |   |                          |                          |                          |                          |                          |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|   | Strongly Oppose          | Oppose                   | Neutral                  | Support                  | Strongly Support         |
| a) The change from State Forests to National Parks  | <input type="checkbox"/> |
| b) The higher level of protection of National Parks, comparing with other status of conservation (e.g. Conservation Park, Resource Reserve) | <input type="checkbox"/> |

**VISITOR SURVEY**

Role of National Parks in your life and the life of the community in South East Queensland.

**20. For YOU personally**, how important are local National parks in terms of the following advantages. *(Please, tick one box per advantage)*

	Not Important	Slightly Important	Moderately Important	Considerably Important	Very Important
Providing recreational opportunities (e.g. a place to camp, walk, cycle, swim)	<input type="checkbox"/>				
Providing social opportunities (e.g. a place to be with/share with family/friends).	<input type="checkbox"/>				
Providing respite (e.g. a place to rest/relax, take time out, contemplate).	<input type="checkbox"/>				
Providing a quality environment to live (e.g. enhancing quality of life).	<input type="checkbox"/>				
It is good just to know it is there, that it exists.	<input type="checkbox"/>				
Providing direct commercial/economic/employment opportunities for me personally (e.g. tour operator, ranger, research etc).	<input type="checkbox"/>				
Providing indirect commercial/economic/employment opportunities for me personally (e.g. food outlets, accommodation, houses, retail, etc).	<input type="checkbox"/>				
Other <i>(Please specify)</i> :					
-----	<input type="checkbox"/>				
-----	<input type="checkbox"/>				
-----	<input type="checkbox"/>				

**VISITOR SURVEY**

**If you are not living around a National Park in SEQ, please jump to question 22.**

**21.** For you personally, how important are the following advantages and disadvantages **in living in or around local National Parks in South East Queensland?** (*Please, tick one box per advantage/disadvantage*)

<b>Advantages</b>	<b>Not Important</b>	<b>Slightly Important</b>	<b>Moderately Important</b>	<b>Considerably Important</b>	<b>Very Important</b>
Creation of jobs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased incomes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improved infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
More attractive Park area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improved recreation facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
More attractive town	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conservation of Park area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased opportunities for social encounters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased opportunities for cultural exchanges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other ( <i>Please specify</i> ):					
-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Disadvantages</b>					
Increased fire risk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase in traffic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased wildlife disturbance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase in noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restrictions of use of the park	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change in character of town	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price inflation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase in local taxes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crowding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other ( <i>Please specify</i> ):					
-----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**VISITOR SURVEY**

**22. For the South East Queensland COMMUNITY AS A WHOLE**, how important are local National Parks in terms of the following advantages? *(Please, tick one box only per advantage)*

	Not Important	Slightly Important	Moderately Important	Considerably Important	Very Important
Protecting scenic landscapes	<input type="checkbox"/>				
Providing clean water and air	<input type="checkbox"/>				
Providing recreational opportunities (e.g. a place to camp, walk, cycle, swim)	<input type="checkbox"/>				
Providing social opportunities (e.g. a place to be with/share with family/friends).	<input type="checkbox"/>				
Providing respite (e.g. a place to rest/relax, take time out, contemplate).	<input type="checkbox"/>				
It is good just to know it is there, that it exists.	<input type="checkbox"/>				
Protecting native plants and animals	<input type="checkbox"/>				
Enhancing environmental awareness and knowledge	<input type="checkbox"/>				
Providing commercial/economic/employment opportunities for the community.	<input type="checkbox"/>				
Other <i>(Please specify)</i> :					
-----	<input type="checkbox"/>				
-----					

**23. For the south-eastern Queensland COMMUNITY AS A WHOLE**, if you consider there are any disadvantages associated with local National Parks in South East Queensland? *(Please, tick one box per disadvantages)*

Disadvantages to you personally	Not Important	Slightly Important	Moderately Important	Considerably Important	Very Important
-----	<input type="checkbox"/>				
-----	<input type="checkbox"/>				
-----	<input type="checkbox"/>				
-----	<input type="checkbox"/>				

**VISITOR SURVEY**

Conservation and management of local National Parks.

**24.** To what extent do you feel these attributes are being adequately protected or managed?  
(Please, tick one box per attribute)

	Not at all	To a very little extent	To a moderate extent	To a considerable extent	To the full extent	Don't know
Biodiversity – plants, animals and ecosystems (protected).	<input type="checkbox"/>					
Scenic landscapes (protected)	<input type="checkbox"/>					
Waterways and wetlands (protected).	<input type="checkbox"/>					
Feral animal pests (managed)	<input type="checkbox"/>					
Environmental weeds (managed).	<input type="checkbox"/>					

A few questions about yourself

**25.** Are you?  
Male  Female

**26.** To which age group do you belong?  
 Under 18.....  45 – 54.....   
 18 – 24.....  55 – 64.....   
 25 - 34 .....  65 and over...   
 35 – 44 .....

**27.** How did you travel to the Park today? (Please, tick one box only)

Private car / truck / 4WD / van..... <input type="checkbox"/>	Walk ..... <input type="checkbox"/>
Taxi ..... <input type="checkbox"/>	Jog / run ..... <input type="checkbox"/>
Public transportation ..... <input type="checkbox"/>	Horseback ..... <input type="checkbox"/>
Group transport..... <input type="checkbox"/>	Wheelchair ..... <input type="checkbox"/>
Motorcycle / scooter ..... <input type="checkbox"/>	Other (please specify) .... <input type="checkbox"/>
Bicycle ..... <input type="checkbox"/>	-----

**28.** How far is this park from your home?  
 ----- metres                      ----- kilometres

**29.** What is the highest level of education you have completed? (Please, tick one box only)

Primary/some secondary..... <input type="checkbox"/>	Vocational/technical..... <input type="checkbox"/>
Completed secondary..... <input type="checkbox"/>	Tertiary/university..... <input type="checkbox"/>

**VISITOR SURVEY**

**30.** Including yourself, how many people are in your travel group today?

Number of adults (18 and over) ----- No. of children (aged 4 or under) -----  
No. of children (aged 5 - 17) -----

**31.** Which of the following best describes you and your travel group? (*Please, tick one box only*)

Travelling by yourself .....	<input type="checkbox"/>	Business associates.....	<input type="checkbox"/>
Adult couple (18 yrs and older) .....	<input type="checkbox"/>	School/University/Sporting group.....	<input type="checkbox"/>
Young family (with children under 6 yrs) ....	<input type="checkbox"/>	Tour group.....	<input type="checkbox"/>
Mid-life family (with children 6 - 17 yrs) ....	<input type="checkbox"/>	Other ( <i>please specify</i> ).....	<input type="checkbox"/>
Mature couple, no children at home .....	<input type="checkbox"/>	-----	
With friends and/or relatives.....	<input type="checkbox"/>	-----	

**32.** To help us determine the distance you live from the Park, what is the closest street intersection to your home?

----- AND -----

POSTCODE: -----

**33.** How much time does it normally take you to get to this Park from your home? *Please, tick one box only*

Less than 15 minutes .....	<input type="checkbox"/>	Between 2 – 3 hours .....	<input type="checkbox"/>
Between 15 – 30 minutes .....	<input type="checkbox"/>	Between 3 – 5 hours .....	<input type="checkbox"/>
Between 30 – 45 minutes .....	<input type="checkbox"/>	More than 5 hours .....	<input type="checkbox"/>
Between 45 – 60 minutes .....	<input type="checkbox"/>	Other ( <i>please specify</i> ): .....	<input type="checkbox"/>
Between 1 – 2 hours .....	<input type="checkbox"/>		

**Thank you very much for your time and participation.**

**VISITOR SURVEY**
**APPENDIX 3: Approved survey instrument including value questions**
**TO BE COMPLETED BY THE INTERVIEWER**

1. Date of interview:...../...../..... Time of interview: .....
  2. What is the name of the Park you are visiting today? .....
  3. Park address: .....
- (e.g. nearest street address, trail name, parking area, etc.)*

**4. How often do you visit this Park? (Please, tick one box only)**

- |                                |                          |                               |                          |
|--------------------------------|--------------------------|-------------------------------|--------------------------|
| On a weekly basis .....        | <input type="checkbox"/> | Once every 1 to 2 years ..... | <input type="checkbox"/> |
| More than 5 times a year ..... | <input type="checkbox"/> | Once every 3 to 5 years ..... | <input type="checkbox"/> |
| 2 to 5 times a year .....      | <input type="checkbox"/> | First visit .....             | <input type="checkbox"/> |
| Once a year .....              | <input type="checkbox"/> |                               |                          |

**5. What day of the week do you normally visit?**

- |                |                          |               |                          |
|----------------|--------------------------|---------------|--------------------------|
| Everyday ..... | <input type="checkbox"/> | Weekend ..... | <input type="checkbox"/> |
| Weekday .....  | <input type="checkbox"/> |               |                          |

**6. How long did/will you spend in the Park on this visit? (Please, tick one box only)**

- |                                  |                          |                            |                          |
|----------------------------------|--------------------------|----------------------------|--------------------------|
| Short stop (under 2 hours) ..... | <input type="checkbox"/> | Overnight.....             | <input type="checkbox"/> |
| Half day (2 to 4 hours) .....    | <input type="checkbox"/> | How many nights? _ _ _ _ _ |                          |
| All day (5 to 8 hours).....      | <input type="checkbox"/> |                            |                          |

**7. TODAY, what is/was your main activity in the Park? (e.g. photography)**

Main activity \_ \_ \_ \_ \_  
*(Write activity here)*

**8. TODAY, what other activities will/did you do in the Park? (Please, tick as many as apply)**

- |   |                          |   |                          |
|---|--------------------------|---|--------------------------|
| Visit Aboriginal/cultural sites .....         | <input type="checkbox"/> | Fishing.....                                | <input type="checkbox"/> |
| Picnic/BBQ .....                              | <input type="checkbox"/> | Trail bike riding ( <i>motorbike</i> )..... | <input type="checkbox"/> |
| Swimming .....                                | <input type="checkbox"/> | Sightseeing.....                            | <input type="checkbox"/> |
| Sports/games (e.g. volleyball, football) .... | <input type="checkbox"/> | Bird watching.....                          | <input type="checkbox"/> |
| Socialising .....                             | <input type="checkbox"/> | Photography/painting/drawing.....           | <input type="checkbox"/> |
| Scenic drive .....                            | <input type="checkbox"/> | Running/jogging .....                       | <input type="checkbox"/> |
| Hiking/bushwalking .....                      | <input type="checkbox"/> | Four wheel driving ( <i>4WD</i> ).....      | <input type="checkbox"/> |
| Kayaking/canoeing/rafting .....               | <input type="checkbox"/> | Religious purposes .....                    | <input type="checkbox"/> |
| Wildlife viewing/nature study .....           | <input type="checkbox"/> | Nature encounter .....                      | <input type="checkbox"/> |
| Cycling/mountain bike riding .....            | <input type="checkbox"/> | Volunteering .....                          | <input type="checkbox"/> |
| Horse riding .....                            | <input type="checkbox"/> | Dog walking.....                            | <input type="checkbox"/> |
| Camping.....                                  | <input type="checkbox"/> | Other ( <i>please state</i> ): .....        | <input type="checkbox"/> |
| Guided tour.....                              | <input type="checkbox"/> |   |                          |

**9. During the past month, have you encountered any of the following users in this or any other park?**

*(Please, tick as many as apply)*

- |                            |                          |   |                          |
|----------------------------|--------------------------|---|--------------------------|
| Mountain bike riders ..... | <input type="checkbox"/> | Dog Walkers .....                           | <input type="checkbox"/> |
| Horse riders .....         | <input type="checkbox"/> | Trail bike riders ( <i>motorbike</i> )..... | <input type="checkbox"/> |
| Hikers/bushwalkers .....   | <input type="checkbox"/> | Four wheel drivers ( <i>4WD</i> ) .....     | <input type="checkbox"/> |
| Runners/Joggers .....      | <input type="checkbox"/> | Others ( <i>please specify</i> ) .....      | <input type="checkbox"/> |
| Picnickers .....           | <input type="checkbox"/> |   |                          |

**VISITOR SURVEY**
**10. What are/were the MAIN purposes for your visit to this Park? (Please, tick as many as apply)**

- |   |                          |                                       |                          |
|---|--------------------------|---------------------------------------|--------------------------|
| To rest and relax .....                     | <input type="checkbox"/> | To see the sights.....                | <input type="checkbox"/> |
| To learn about native animals and plants .. | <input type="checkbox"/> | To enjoy nature and the outdoors..... | <input type="checkbox"/> |
| To have a break from everyday city life ... | <input type="checkbox"/> | To get some exercise.....             | <input type="checkbox"/> |
| To engage in recreational activities .....  | <input type="checkbox"/> | For adventure and/or a challenge..... | <input type="checkbox"/> |
| To holiday .....                            | <input type="checkbox"/> | other: (please specify).....          | <input type="checkbox"/> |
| To learn about cultural heritage .....      | <input type="checkbox"/> | -----                                 |                          |
| To spend time with friends and family ..    | <input type="checkbox"/> |                                       |                          |

**11. Identify how positively or negatively the activities or behaviours of other park users impact upon you. (Please, tick one box per activity)**

	Strongly positive	Positive	Neutral/ Don't affect	Negative	Strongly negative
a) Mountain bike riding	<input type="checkbox"/>				
b) Horse riding	<input type="checkbox"/>				
c) Hiking/bushwalking	<input type="checkbox"/>				
d) Running / jogging	<input type="checkbox"/>				
e) Picnicking	<input type="checkbox"/>				
f) Dog walking	<input type="checkbox"/>				
g) Trail bike riding (motorbike)	<input type="checkbox"/>				
h) Four wheel driving (4WD)	<input type="checkbox"/>				
h) Other (Please specify)	<input type="checkbox"/>				
-----					

**12. For any activity you selected as negative or strongly negative in Question 11, why are they affecting your experience? (Please, tick as many as apply)**

	Damage plants or animals	Uncooperative behaviour (e.g. rude)	Frighten wildlife	Startle people	Make too much noise	Create litter	Scare horses	Leave animal wastes	Dog off leash	Potential collisions or Injury	Other (specify) .....
Mountain bike riding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Horse riding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hiking/ bush walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Running/ jogging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Picnicking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dog walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trail bike riding (motorbike)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Four-wheel driving	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify) .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**13. Which trails and/or facilities will/did you use today in the Park?**


---



---



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**VISITOR SURVEY**
**14. Are there any activities that may be permitted in this Park that you feel should be prohibited?**
*(Please, tick as many as apply)*

- |  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| Visit Aboriginal/cultural sites .....    | <input type="checkbox"/> | Fishing.....                                | <input type="checkbox"/> |
| Picnic/BBQ .....                         | <input type="checkbox"/> | Trail bike riding ( <i>motorbike</i> )..... | <input type="checkbox"/> |
| Swimming .....                           | <input type="checkbox"/> | Sightseeing.....                            | <input type="checkbox"/> |
| Sports/games (e.g. volleyball, football) | <input type="checkbox"/> | Bird watching.....                          | <input type="checkbox"/> |
| Socialising .....                        | <input type="checkbox"/> | Photography/painting/drawing.....           | <input type="checkbox"/> |
| Scenic drive .....                       | <input type="checkbox"/> | Running/jogging .....                       | <input type="checkbox"/> |
| Hiking/bushwalking .....                 | <input type="checkbox"/> | Four wheel driving ( <i>4WD</i> ).....      | <input type="checkbox"/> |
| Kayaking/canoeing/rafting .....          | <input type="checkbox"/> | Religious purposes .....                    | <input type="checkbox"/> |
| Wildlife viewing/nature study .....      | <input type="checkbox"/> | Volunteering .....                          | <input type="checkbox"/> |
| Cycling/mountain bike riding .....       | <input type="checkbox"/> | Dog walking.....                            | <input type="checkbox"/> |
| Horse riding .....                       | <input type="checkbox"/> | Other ( <i>please state</i> ): .....        | <input type="checkbox"/> |
| Camping.....                             | <input type="checkbox"/> | -----                                       |                          |
| Guided tour.....                         | <input type="checkbox"/> |   |                          |

**15. How strongly do you agree with the statements below? (Please, tick one box only)**

	Strongly positive	Positive	Neutral	Negative	Strongly negative
The most important reason for parks is to protect plants and animals.	<input type="checkbox"/>				
The most important reason for parks is to provide recreational opportunities for people.	<input type="checkbox"/>				
I find flies and ants in parks to be a real nuisance.	<input type="checkbox"/>				
Seeing wild birds and animals in parks gives me a magical feeling.	<input type="checkbox"/>				
As long as parks protect endangered ecosystems the fates of individual animals doesn't matter to me.	<input type="checkbox"/>				
It's OK when a magpie steals my sandwich because they have to eat too.	<input type="checkbox"/>				
We should conserve plants in parks because they help us by soaking up carbon and fighting climate change.	<input type="checkbox"/>				
The plants in parks should be protected because they might offer future benefits like a cure for cancer.	<input type="checkbox"/>				
I don't like native plants because they look messy.	<input type="checkbox"/>				
It's unfortunate when bushfires occur in parks, but that's nature's way.	<input type="checkbox"/>				
It's never OK to interfere with wild animals; they should be free to lead lives without disturbance.	<input type="checkbox"/>				
Picking wildflowers causes no harm.	<input type="checkbox"/>				
Riding trail-bikes in parks is fun – a few damaged plants won't matter.	<input type="checkbox"/>				
Native plants and animals in parks are beautiful.	<input type="checkbox"/>				
If humans do not manage nature, it becomes a threat.	<input type="checkbox"/>				
Other ( <i>Please state</i> ) _____	<input type="checkbox"/>				

**VISITOR SURVEY**

**16. How strongly do you agree with the statements below? (Please, tick one box only)**

	Strongly positive	Positive	Neutral	Negative	Strongly negative
Only humans have value for their own sake.	<input type="checkbox"/>				
The value of an ecosystem only depends on what it does for humans.	<input type="checkbox"/>				
My neighbourhood parks improve property values.	<input type="checkbox"/>				
Ugly areas like swamps have no value and should be cleaned up.	<input type="checkbox"/>				
Even if I don't visit natural areas I can still enjoy them by looking at books or watching films.	<input type="checkbox"/>				
We have to protect the environment for future generations of humans even if it costs us money.	<input type="checkbox"/>				
I need to know that untouched natural places exist.	<input type="checkbox"/>				
Natural areas are important to me because I use them for recreation.	<input type="checkbox"/>				
I feel less stressed when I visit natural areas.	<input type="checkbox"/>				
It's better to test new drugs on animals than on humans because animals don't suffer like we do.	<input type="checkbox"/>				
Our children will be better off if we focus on the economy instead of worrying about the environment.	<input type="checkbox"/>				
The welfare of people comes before that of animals and plants.	<input type="checkbox"/>				
I like walking in nature because it keeps me healthy.	<input type="checkbox"/>				
I would pay more taxes to protect my local parks.	<input type="checkbox"/>				
Other (Please state) _____	<input type="checkbox"/>				

**A few questions about yourself**

**17. What is your sex?**

Male

Female

**18. To which age group do you belong?**

Under 18.....

18 – 24.....

25 - 34 .....

35 – 44 .....

45 – 54.....

55 – 64.....

65 and over...

**VISITOR SURVEY**
**19. How did you travel to the Park today? (Please, tick one box only)**

- |   |  |
|---|--|
| Private car / truck / 4WD / van..... <input type="checkbox"/> | Walk ..... <input type="checkbox"/>                  |
| Taxi ..... <input type="checkbox"/>                           | Jog / run ..... <input type="checkbox"/>             |
| Public transportation ..... <input type="checkbox"/>          | Horseback ..... <input type="checkbox"/>             |
| Group transport..... <input type="checkbox"/>                 | Wheelchair ..... <input type="checkbox"/>            |
| Motorcycle / scooter ..... <input type="checkbox"/>           | Other (please specify) .... <input type="checkbox"/> |
| Bicycle ..... <input type="checkbox"/>                        |  |

**20. How far is this park from your home?**

\_\_\_\_\_ metres                      \_\_\_\_\_ kilometres  
 (Write number here)                      (Write number here)

**21. What is the highest level of education you have completed? (Please, tick one box only)**

- |  |  |
|--|--|
| Primary/some secondary..... <input type="checkbox"/> | Vocational/technical..... <input type="checkbox"/> |
| Completed secondary..... <input type="checkbox"/>    | Tertiary/university..... <input type="checkbox"/>  |

**22. Including yourself, how many people are in your travel group today?**

Number of adults (18 and over)        \_\_\_\_\_                      No. of children (aged 4 or under)        \_\_\_\_\_  
 No. of children (aged 5 - 17)        \_\_\_\_\_

**23. Which of the following best describes you and your travel group? (Please, tick one box only)**

- |  |  |
|--|--|
| Travelling by yourself ..... <input type="checkbox"/>                    | Business associates..... <input type="checkbox"/>              |
| Adult couple (18 yrs and older) ..... <input type="checkbox"/>           | School/University/Sporting group..... <input type="checkbox"/> |
| Young family (with children under 6 yrs) .... <input type="checkbox"/>   | Tour group..... <input type="checkbox"/>                       |
| Mid-life family (with children 6 - 17 yrs) .... <input type="checkbox"/> | Other (please specify)..... <input type="checkbox"/>           |
| Mature couple, no children at home ..... <input type="checkbox"/>        | -----  |
| With friends and/or relatives..... <input type="checkbox"/>              |  |

**24. To help us determine the distance you live from the Park, what is the closest street intersection to your home?**

\_\_\_\_\_ AND \_\_\_\_\_  
 (street 1)    (street 2)  
 POSTCODE: \_\_\_\_\_

**25. How much time does it normally take you to get to this Park from your home? (Please, tick one box only)**

- |  |  |
|--|--|
| Less than 15 minutes ..... <input type="checkbox"/>    | Between 1 – 2 hours ..... <input type="checkbox"/> |
| Between 15 – 30 minutes ..... <input type="checkbox"/> | Between 2 – 3 hours ..... <input type="checkbox"/> |
| Between 30 – 45 minutes ..... <input type="checkbox"/> | Between 3 – 5 hours ..... <input type="checkbox"/> |
| Between 45 – 60 minutes ..... <input type="checkbox"/> | More than 5 hours ..... <input type="checkbox"/>   |
|  | Other (please specify): .....                      |

**Thank you very much for your time and participation.**

## APPENDIX 4: Camera monitoring program

Table 4: Number of visitors, per camera, captured with the camera monitoring program over 993 days (2009 and 2010 combined) (Fairfax et al. 2011).

Camera	Day of week	Mountain Bikes	Joggers	Walkers	Bushwalkers	Horses	Motor vehicles	Trail bikes
C1	Monday	8	2	13	2	0	1	0
	Tuesday	20	3	12	0	2	2	1
	Wednesday	22	9	10	1	0	9	1
	Thursday	13	0	18	0	0	3	2
	Friday	24	3	11	0	11	2	6
	Saturday	229	7	50	15	0	1	5
	Sunday	228	25	17	2	4	1	0
<b>C1 Total</b>		<b>544</b>	<b>49</b>	<b>131</b>	<b>20</b>	<b>17</b>	<b>19</b>	<b>15</b>
C2	Monday	5	0	0	0	0	1	1
	Tuesday	10	2	0	0	2	4	0
	Wednesday	61	0	1	2	0	15	0
	Thursday	10	1	1	0	0	3	1
	Friday	20	0	0	4	4	6	0
	Saturday	88	17	16	4	0	1	1
	Sunday	125	16	0	0	0	1	2
<b>C2 Total</b>		<b>319</b>	<b>36</b>	<b>18</b>	<b>10</b>	<b>6</b>	<b>31</b>	<b>5</b>
C3	Monday	3	0	0	0	0	1	0
	Tuesday	3	0	1	0	1	0	0
	Wednesday	7	0	1	0	0	8	0
	Thursday	5	0	0	0	2	3	0
	Friday	8	1	0	0	3	14	0
	Saturday	13	5	8	0	3	6	0
	Sunday	17	5	8	12	7	0	1
<b>C3 Total</b>		<b>56</b>	<b>11</b>	<b>18</b>	<b>12</b>	<b>16</b>	<b>32</b>	<b>1</b>
C4	Monday	1	0	2	0	0	0	0
	Tuesday	3	0	0	0	0	1	0
	Wednesday	2	0	2	0	0	8	0
	Thursday	2	0	0	0	0	9	0
	Friday	0	0	0	0	4	10	0
	Saturday	36	4	17	5	1	8	0
	Sunday	49	0	1	41	7	0	0
<b>C4 Total</b>		<b>93</b>	<b>4</b>	<b>22</b>	<b>46</b>	<b>12</b>	<b>36</b>	<b>0</b>

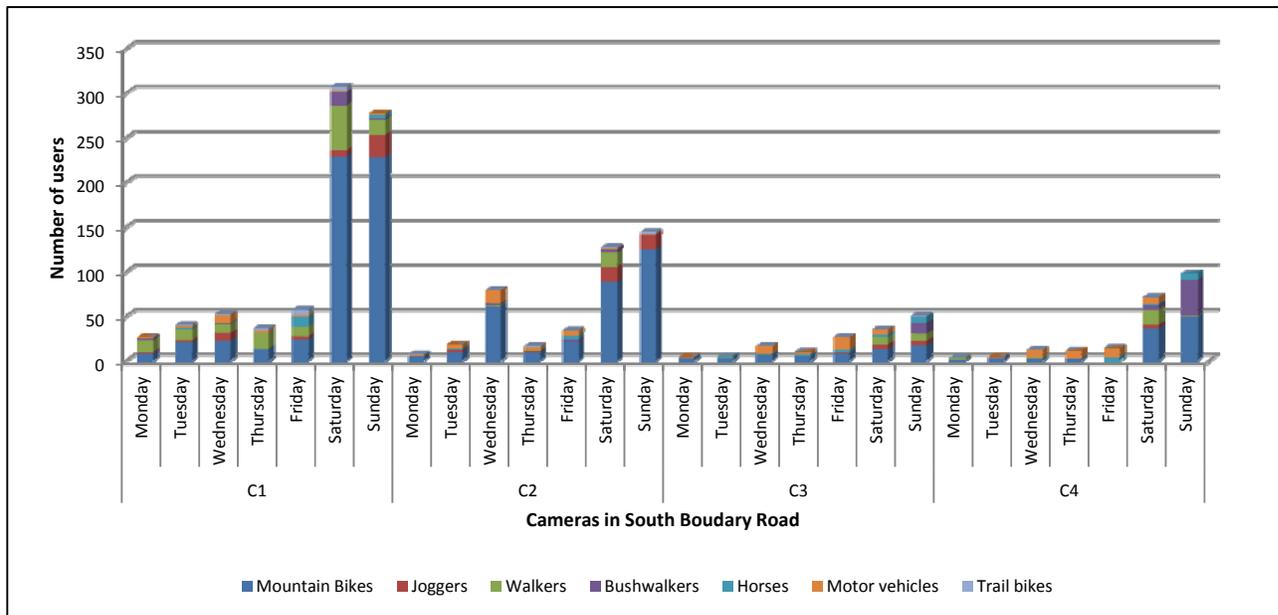


Figure 7: Number of users visiting South D'Aguilar NP per day of the week. Camera monitoring program (Fairfax et al. 2011).

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