



Environmental TRUST

Grant Application Form Environmental Research Program

Closing date: 14 July 2000

Grants available: \$30,000-\$300,000 for projects of 1-3 years duration

General Information

You will need the Environmental Trust's *Guidelines for Grant Applications* to help you fill out this application form.

For a copy of the *Guidelines for Grant Applications*, additional application forms or further information, please telephone the Trust's staff on (02) 9995 5369, or go to the EPA web site: www.epa.nsw.gov.au

The Application Form

The form is divided into five sections.

Section A asks you for specific information that we need for our registration and administrative processes.

Section B asks you for specific information about the:

- project
- reasons for the project
- people involved and their capacity to successfully take on the project
- likely outcomes and benefits.

Section C seeks details of the expected costs and income for the project in a standard budget format.

Section D asks for the names of two referees.

Section E requires you to certify your application.

Please answer every question. Where you think a question does not apply to your proposal, write "not applicable" or, preferably, briefly explain why.

You must:

- type your application (you may duplicate this application page-for-page on a word processor or download it from the EPA web site)
- send **two unbound copies** of your application to the Trust
- submit all information by the closing date
- send your application **postmarked** no later than **14 July 2000** (do not fax or e-mail your application)
- keep a photocopy of your application.

Be sure to include all the information which is clearly sought in this form. Our staff will not chase you up for information which you have failed to include. Only the information you provide by the closing date will be submitted to the Trust and its technical committee.

We will return any application which is late, incomplete or not eligible in terms of our *Guidelines for Grant Applications*.

You should send your completed form to:

Administrator
Environmental Trust
PO Box A290
SYDNEY SOUTH NSW 1232

Curricula Vitae

We ask you to provide curricula vitae (CVs) for the people directing and working on your project so that we can assess their skills and capabilities to successfully undertaking the project. To keep this information to a manageable amount, these CVs should be no more than **two pages in length**.

Job Briefs/Descriptions

We also ask you to provide job descriptions for all project employees and briefs for any consultants you may employ so that we understand clearly what you will be asking them to do. Again, these should not exceed two pages in length.

Communications, Marketing and Dissemination

Many projects fail because their proponents have not established whether there is a “market” for their research. Similarly, communications and disseminating such material usually requires specialist knowledge and a great deal of time. Make sure you address these issues in detail, including seeking specialist advice (see sections B-4.2-4.3)

Attachments

We have designed the questions on the application to avoid the need for you to attach additional information. Please use the spaces provided and do not add extra material other than where we specifically ask for it.

Publicising your Project

The Trust considers all projects which it supports to be of interest to both specialist audiences and the community. We therefore place great emphasis on how you will let others know about your project. We also realise that publicity can cost money. Therefore, you should include your publicity costs in your project budget. The Trust will consider providing funds to meet these costs.

Checklist

You should use the following checklist to make sure that your application is complete and accurately represents your project. You should:

- read the *Guidelines for Grant Applications*, in particular, the objectives of the Trust and its grant program, priorities, assessment criteria and Goods and Services Tax.
- read this introduction
- answer all the questions on this application form
- type only in the spaces provided – **do not make your application longer than 18 pages**
- attach all required curricula vitae, briefs and job descriptions
- when using acronyms in your application ensure that the name is written in full prior to the use of the acronym
- sign and date your application
- send **two copies** of the application and attachments to the Trust
- do not bind or staple the application
- ensure it will be postmarked on or before the closing date, as late applications are ineligible.

Section B - Details of Project

Name of organisation: Marrickville-South Sydney Bicycle Group in conjunction with Leichhardt Bicycle User Group

Name of project: Inner West Non-Motorised-Vehicle Transport Study

Amount requested \$	61,300	Yr 1	\$	32,500	For Office Use Only
		Yr 2	\$	13,600	200__/RD/A ____
		Yr 3	\$	15,200	
		Total	\$	61,300	

B-1 Project Description

1.1 What is the objective of this project? (i.e. what knowledge or information gaps will the project fill?)

The project objective is to "*obtain a clear picture of non-motorised-vehicle(NMV) trips in a specific local area of Sydney, and by undertaking site-based and longitudinal studies, assess the effectiveness of programs aimed at reducing car-based journeys, and identify the key factors which might result in an increase in such trips*"

The project has specific objectives to:

- gain better understanding of cycling, walking and wheeled non-motorised trips in a local area
- provide information so as to best provide facilities in the future, and to best manage existing facilities
- use the detailed "fine-grain" data collected to calibrate broad population data currently being gathered
- relate the pattern of non-motorised trips to specific local environmental and urban features and policies

The project will seek to fill knowledge gaps in four key areas:

- **pattern of trips:** to provide baseline data as to the level of cycling and non-motorised vehicle trips; the use of off-road facilities and routes; characterisation of mode against age, gender, geographic location etc;
- **response to supply:** examine over a three year period the change in the modal split and pattern of use following the addition of facilities or the introduction of incentive programs
- **behaviour:** examine on-road vs. off-road behaviour of cyclists and other road/path users to establish behavioural patterns which act as a disincentive for cycling;
- **modal choice:** clearly identify the reasons for not for cycling due to local factors; the interaction between various modes; public transport/dual mode; and determining what incentives would be effective in achieving a reduction in vehicle kilometres travelled.

1.1 Please explain your reasons for developing this project (including the importance and context of the knowledge/information gaps the project seeks to fill) and describe the research/investigations you have undertaken in developing your project, if any

Cycling strategies and planning over the recent years in Sydney bravely seeks to encourage a shift towards NMT, yet little **accurate** data is available to confirm assumptions made regarding the effectiveness of engineering treatments undertaken, plans developed or encouragement programs adopted. There has been an absence of sound research studies undertaken at a local level. Studies to date in NSW have generally been broad-brush, with no examination of the fine detail and influences at the local level. The untested assumption has been that the patterns hold throughout the metropolitan are, and from city to city.

It is the contention in developing this study that the variation in cycling patterns and travel moderm choice are as varied as the local characteristics of environment and community. Good data at a local level can provide insights as to the appropriate strategies to encourage a shift in private trips from motorised to non-motorised travel.

The study intent is in accord objective 5.4 of the *Australia Cycling The National Strategy* (Austroads, 1999) to ensure reliable and accurate up-to-date information is available to assist decisions made about cycling issues. Information from data collection and research findings disseminated to appropriate decision-making bodies commencing December 1999. The aim of Action for Transport 2010 (NSW Gov., n.d.) is to reduce (motorised) vehicle kilometres travelled (vkt) by car. According to Action for Bikes 2010 (NSW Government, 1999) the government will conduct research on bicycle facilities, bicycle use and compliance with the law, however only broadly-based studies are proposed by the RTA.

Investigations for developing this application included review of information in local bike plans, discussion with RTA officers, Bicycle NSW, research methodologists, local Councils and officers at the Transport Data Centre.

1.3 Please describe your environmental research project.

The project seeks information on how best to bring benefits of an increase in non-motorised transport to the urban environment. Urban quality issues include: air quality, greenhouse impacts, social impacts, accidents, impact on urban resources, health benefits, community benefits, economic benefits. The study will focus on non-motorised wheeled vehicles (NMV) including bicycles, recumbent wheeled vehicles, roller blades, scooters, skateboards. Data on pedestrian patterns will be gathered where it is ancillary to NMV data gathering.

The study will focus on a defined corridor from Cooks River to the Iron Cove, and 1km either side of this corridor. The location of the corridor is shown on the map as **Attachment A**.

Reasons for selecting project area:

- it is reasonably defined and bordered by geographical features barriers (Sydney Harbour and Cooks River, and ridges defining these sub-catchments)
- contains a mix of residential types, and small and larger shopping centres
- already has major cycling facilities (City West to Strathfield, Cooks River) and more are planned or (Bay Run, CBD to Mountains Rail Trail; urban greenway in rail corridor)
- there are a number of public transport nodes located in the corridor and which can be relatively easily monitored
- there are specific locations which would provide ideal sites for off-road cycleway monitoring
- it is known that there are cyclists in the area to assist with volunteers survey work

The research study will have three major facets: monitoring usage and trips; household surveys of residents; and evaluation of emerging techniques for encouragement. These three facets described below.

Characterisation of Local Area: Travellers and Environment

Surveying of residents at a detailed interview level will further link patterns and mode of travel decisions to local characteristics and destinations. Specific information would be obtained on disincentives for NMV, and local planning, engineering or social or environmental factors which would influence the respondent's to change travel patterns. Sampling would be at a rate which would result in significant data for the least frequent modes. An aspect often overlooked in other surveys is the quality and enjoyment of the travel experience. This will be assessed in the qualitative surveys.

Monitoring Travel Patterns

A variety of techniques will be used within the first year of the study to monitor NMV trips within and across the study area. This will include the use of localised cordon surveys, vehicle counters/loops on off-road facilities and monitoring of on-road usage. Video/digital recorded images will be used to capture usage patterns at shopping centres, transport interchanges. The objective of the monitoring will be to determine a baseline for later evaluation purposes. It will also be one of the first times in NSW that comprehensive data would be gathered for the full spectrum of N-MV trips. The monitoring surveys would be continuous, whilst the cordon and one-off surveys would be repeated at the end of the three year study period. Data will also be gathered to enable exposure information, an important factor in determining the relative safety risk for the various modes of travel (on a time and distance basis)

Evaluation of Measures to Encourage Non-Motorised Vehicle Transport

Once baseline data has been collected, and the characteristics of the local population base and travel environment is understood, a range of incentive packages would be trialled with selected groups of local residents. The incentives could include:

- an incentive system similar to the "Travel Smart" program trialled in Perth, and presented at Velo Mondial 2000 in Amsterdam. then program was based on the "Travelwise" program in the UK. The program aims at encouraging a change from a car-based travel, by pledging to ride a bike to work in return for a benefit. Results indicate that after 12 months of this scheme operating in Perth there is strong compliance and that the regular cycling participants are all now within the highest percentile of fitness levels in the community. Such a scheme is proposed to be trialled on a smaller basis in the study area, possibly with the involvement of local bike shops who could "loan" bikes for a short trial period.
- providing customised mapping and other NMV route information
- use of a "ride to school" program with assisted cycling to school for groups of students within a selected local area
- providing selected residents and potential cyclists with bicycle proficiency training

1.4 Explain why you consider this project will be of value to the people of New South Wales.

The project is of value to the people of NSW because:

- there is currently very little data on cyclist patterns at the detail level and almost no existing assessment of the effectiveness of cyclist facilities or encouragement programs
- the data gained will help guide urban planning throughout NSW
- the study would complement the metro-wide cycleway data proposed to be obtained by the RTA
- the data would establish the local variability of cyclist/NMT data
- exposure models could be developed to determine issues such as health benefits vs. increase accident rates
- the project results could assist in developing effective strategies for encouraging NMT
- provide information as to best manage conflict in the rapidly increasing development of off-road pathways

There are two main criteria for environmental improvements - change in mode - from car/public transport to NMT and associated environmental benefits; and increase in exercise and NMT activity and associated health benefits. The study will concentrate on the former, but will also be able to provide data on the latter.

1.5 Literature cited - list the literature that you have cited in this application.

References used in the preparation of this application:

Austrroads (1999) *Australia Cycling 1999-2004 The National Strategy*

Arup Transportation Planning (1990) Sydney Bike Plan

ABS (1989) Bicycle Usage and Safety New South Wales October 1988: Australian Bureau of Statistics.

British Medical Association (1987) *Cycling for Health and Fitness*

Datacol (1991) ACT Bicycle Policy - Market Research. For Dept of Urban Services Roads & Transport Branch

Katz R. (1997) *Demand for bicycle use: A behavioural framework and empirical analysis for NSW*. Doctoral Thesis, University of NSW, March 1997

NRMA (1996) *Clean Air 2000 Monitor of Public Attitudes*

NSW Government (n.d.) Action for Transport 2010. An Integrated Transport Plan for NSW

NSW Government (1999) Action for Bikes Bikeplan 2010 New South Wales

North Sydney College of TAFE (1996) *Cyclist safety within the North Sydney Municipality* - research, recommendation and analysis.

RTA (1996) NSW Bikeplan

RTA (2000) Personal communication Rolf Lunsmann

SBC (1987) *Survey of Cyclists Characteristics & Cycling Patterns*. Spectrum Research for State Bicycle Victoria

STC (1999) Cyclist Issues Report Market Street Tunnel EIS

Transport Data Centre (2000) Collation of Bicycle Use Data for Metropolitan Sydney (in-publication)

Geoplan (1996) Marrickville Bicycle Strategy. In assoc. with ARUP Transportation Planning

B-2 The Project Team

2.1 Project leaders

Name	Job/Function	CV attached? Yes/No
Bruce Ashley	Project Manager	Yes
Dr Rod Katz	Research Methodology; Literature Review	Yes
Research Graduate	Research assistance	No
Bob Moore	Liaison LBUG and cyclist community	No

2.2 Project employees

Name	Job/Function	CV attached? Yes/No
N/A		

2.3 Consultants/Subcontractors

Name	Job/Function	Job description attached Yes/No	CV attached? Yes/No
Bruce Ashley	As Above	No	Yes
Rod Katz	As Above	No	Yes
Liz Ampt		No	Yes
Survey Research Organisation (possibly from NCS Australia; ACNeilson; McNair etc.)	Undertake Household survey; longitudinal survey	No	No
Advisory Panel including experts from the major cycling consultancies in Sydney and Transport research bodies	Provide expert advice from consultancy and research backgrounds	No	N/A

2.4 Other participants (local, State and federal authorities, environmental organisations, other community groups)

Name	Relationship/Contribution to the project
Roads and Traffic Authority NSW	Provision of bicycle counter data Metro Cycleways
Transport Data Centre	Assistance with provision of data sources
Dept Health, Inner West Health Unit	Assist in Travel Smart health/activity trial
Department of Transport / CityRail	Dual Mode/Public Transport Issues
Bicycle Traders Assoc.	Assistance with Promotion,
Pedestrian Assoc.	Input on issues relating to shared paths
Ashfield, Marrickville, Leichhardt and Canterbury Councils	Installation of counters and monitoring devices, in-kind assistance (demographic data, publicity and promotion)
Federal Dept Transport/Office of Road Safety	Provide National Data on exposure/safety & monitoring guidelines

2.5 What selection criteria will you use to employ each project staff member?

N/A

1.1 Who will be making the selections?

N/A

B-3 The Project Process

3.1 Please describe your research methodology.

The initial stage in the project will be to define and clarify the project outcomes and data needs, followed by identification of the appropriate research methodology. A Steering Committee comprising Council, key State Government agencies, Bicycle NSW, MASSBUG and LBUG would meet to confirm project data needs and study approach. An expert advisory panel will also be formed to guide the project at key stages. It is proposed that the Panel be composed of experts in the fields of NMT transport and research.

Data collection will conform with "*Guidelines for the collecting of cycling data and the reporting of cycling indicators*" currently being prepared for VicRoads on behalf of the Federal Department of Transport by Phill Harbutt, Steer Davies Gleave.

The research project will have four research components:

Cordon Surveys at Specific Locations

- used at specific locations within the study area to cover all aspects of NMV trips, including origin and destination, type of vehicle, group size and characteristics of user. They would be undertaken at such locations as shopping centres, particular off-road shared pathways
- on-road trips would be recorded by a monitoring team, whilst off-road trips recorded using fixed monitoring stations
- would be undertaken on 6 occasions, two during weekdays and one on a weekend
- conducted at the commencement of the study to determine initial/baseline data, then again at the conclusion of the study to determine the impact on programs and facilities on NMT patterns

Permanent Monitoring Stations

- permanent monitoring stations would be located within the corridor on key off-road facilities with monitoring using infra-red sensors (which can detect pedestrians)
- fixed video equipment would also be used at specific times
- regular video monitoring of small shopping precincts (Summer Hill and Dulwich Hill)
- major employers/schools/institutions would be interviewed to determine the level of commuting by NMV to these premises

Household Surveys

Phone and face-to-face interviews would be conducted for a random sample of householders within the corridor. This would be conducted at project commencement, with a follow-up two years later. The survey would be conducted using an agency. Sample size would be sufficient to gain useful information on the low frequency travel modes (e.g. commuting cyclists)

Travel Diaries

A "travel diary" approach will be used for selected candidates for the trialling of various encouragement measures. This will occur following the baseline studies. The diaries will be kept for a 12 month period. A "control" set of respondents will also be used to assess the survey method.

The data will then be analysed to determine:

- pattern of NMV trips within and through the study area
- any changes in patterns over the three year study period
- impact of encouragement measure on selected candidates
- impact on travel patterns related to new trip facilities or NMV travel environment
- relationship of NMV trips and public transport
- the key disincentives for NMV trips in the corridor
- factors which would encourage the greatest change from motorised to non-motorised trips in the corridor
- key behavioural issues associated with use of off-road cycleway/pathway/footpaths

3.2 Please provide a project timetable. You may attach an extra page if your project timetable requires additional space.

Feb 2001	- grant awarded; project planning; obtain necessary equipment and approvals
March 200	- formation of Steering Committee to confirm project data needs and study approach
April 2001	- advisory panel meets to confirm research methodology
April 2001	- organise materials and volunteers
May 2001	- installation and testing of monitoring equipment
Jun 2001	- commence monitoring
Oct 2001	- conduct first cordon survey
Mar 2002	- household survey; recruit persons for travel diary study
April 2002	- commence travel diary/longitudinal study
Oct 2002	trials of encouragement measures (e.g. Travel Smart Program, bicycle proficiency)
Oct 2003	- second cordon survey
Sep 2003	- completion of travel diary data gathering
Nov 2003	- analysis of results
Jan 2004	- write up and presentation of study

1.1 Will any part of the research be “commercial-in-confidence” in nature? Yes No

If the answer is “yes”, please provide an overview as to which parts are “commercial-in-confidence” and which parts are “public good”.

N/A

B-4 Additional Publications and Dissemination of Results

4.1 If, in addition to the final submitted report, you intend to communicate the results of the project (e.g. journal articles, conference presentations, databases, etc.), what form will this communication take?

- Journal articles (e.g. ARRB Journal Transport Research)
- Regular updates in Cyclist magazines (e.g. Australian Cyclists)
- Presentation at Transport and Cycling Conferences (e.g. Velo Mondial)
- Presentation of the research findings on an Internet Web Site
- Compilation of all data on a CD ROM for sales or distribution
- Regular updates on the study in Local Council Newsletters (e.g. Marrickville Matters)

4.2 Please explain in detail your proposed communication, marketing and dissemination strategies.

The communication, marketing and dissemination strategy will include then full range of print, radio audiovisual media. An allowance in the budget has been made for development of a strategy for disseminating the research results. The strategy could include:

- a forum held at the conclusion of the study to present results. This could be undertaken in conjunction with NSW Bike Week or Environment Week
- precis/newsletter of the research work updated and sent on a regular basis to all stakeholders involved in the study as well as those involved in transport planning, transport research, environmental transport issues
- preparation of a paper to be presented to a leading journal in fields of transport research, environmental management, urban planning etc
- preparation of a project summary to be distributed to all residents and businesses in the local area, explaining the outcomes of the study
- presentation of the a successful study outcome to community leaders and politicians

4.3 What will the contents of the proposed communication, marketing, dissemination products be?

Contents will include:

- full write-up of the research tasks and methodology
- full statistical analysis and presentation of the results and findings
- graphical information to explain the findings to the lay person
- a video presentation showing the research techniques used and the characteristics of the local environment

4.4 Commercial Output:

Will the results or product of the research be sold or licensed? Yes No (if no, go to Section C)

Unit cost: \$2.50 Retail price: \$100.00

Estimated number of sales/licences: 50

Estimated profit (if any) from sales/licensing \$5,000

C-2 Other Sources of Project Income

You should list all sources of income you are seeking from funding bodies, apart from the Trust.

Organisation/agency	Funding approved? Yes/No	Date of confirmation (dd/mm/year)	Amount \$
Federal Government (department name)			
Total \$			
State Government (department name) Roads and Traffic Authority	In-kind Contribution		
Total \$			
Local Government (local council name)			
Total \$			
Commercial sponsorship			
Total \$			
Other sources (please detail) Sale of CD ROM of Research Data	N/A	N/A	\$5,000
Total \$			5,000

C-3 Project Expenditure Summary

List all costs associated with the project. If you **are registered for GST** the amount requested from the Trust should **NOT** include any amount of Goods and Services Tax (GST) which may be payable on a listed item. GST paid by entities registered for GST purposes will generally be able to be claimed as Input Tax Credits. If you are **not registered for GST and are administering your own grant**, the amount requested from the Trust **should include** any GST which may be payable on a listed item.

	Money from all other sources (i.e. applicant's contribution, earned income and other income)	Amount requested from Trust			PROJECT BUDGET
		Yr 1	Yr 2	Yr 3	
1. Labour costs					
Salaries for project supervision	\$1,200 (in-kind)	\$ NIL	\$ NIL	\$ NIL	\$1,200
Salaries for project officer/s	\$ 800 (in-kind)	\$ NIL	\$ NIL	\$ NIL	\$ 800
Related costs	\$ NIL	\$ NIL	\$ NIL	\$ NIL	\$ NIL
Consultants	\$ NIL	\$ 5,000	\$ 400	\$ 5,500	\$ 10,900
Sub-contractors	\$ NIL	\$ 14,000	\$ 3,000	\$ 3,000	\$ 20,000
Other (as detailed in C-4)	\$3,000 (in-kind)	\$ 3,500	\$ 500	\$ 3,500	\$ 10,500
Subtotal	\$ 5,000	\$ 22,500	\$ 3,900	\$ 12,000	\$ 43,400
2. Direct project costs					
Consumables	\$ NIL	\$ 100	\$ 100	\$ NIL	\$ 200
Equipment/venue hire/purchase	\$ NIL	\$ 8,200	\$ NIL	\$ NIL	\$ 8,200
Travel/vehicle expenses	\$ NIL	\$ 200	\$ 100	\$ 100	\$ 400
Insurance	\$ NIL	\$ 300	\$ 300	\$ 300	\$ 900
Other (as detailed in C-4)	\$ NIL	\$ NIL	\$ 8,000	\$ NIL	\$ 8,000
Subtotal	\$ NIL	\$ 8,800	\$ 8,500	\$ 400	\$17,700
3. Documentation and communications					
Publication and dissemination	\$ 300 (in-kind)	\$ 500	\$ 500	\$ 1,000	\$ 2,300
Project documentation	\$ 500 (in-kind)	\$ 500	\$ 500	\$ 1,000	\$ 2,500
Subtotal	\$ 800	\$ 1,000	\$ 1,000	\$ 2,000	\$ 4,800
4. Other project expenditure					
Accounting and auditing	\$ 300 (in-kind)	\$ NIL	\$ NIL	\$ 500	\$ 800
Administrative costs (telephone, postage etc.)	\$ 500 (in-kind)	\$ 200	\$ 200	\$ 300	\$ 1,200
Other (as detailed in C-4)	\$ NIL	\$ NIL	\$ NIL	\$ NIL	\$ NIL
Subtotal	\$ 800	\$ 200	\$ 200	\$ 800	\$ 2,000
TOTAL	\$ 6,600	\$ 32,500	\$ 13,600	\$ 15,200	*\$ 67,900

* Please note, the total in the right-hand column (Project Budget) must be the same as the Total Project Value at C-1.

C-4 Details of Expenditure Items

1. Labour costs

Salaries for project supervision/project officer(s)

Name	Job	Pay rate	No. of hours per week	No. of days per week	No. of weeks	\$
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In-Kind or Volunteer Basis Only

Total _____
\$

Related costs (workers compensation insurance, superannuation, loadings, etc.) for project period

Insurance for volunteers to be covered under policy for volunteers held by BNSW/MASSBUG/LBUG

Insurance for contractors will be the responsibility of the contractor

Total _____
\$

Consultants/sub-contractors fees

Name	Service	Fee \$
Bruce Ashley	Project Management	6,000
Rod Katz	Research Methodology; Analysis	4,000
Market Research Co.	Household Surveys, longitudinal studies	25,000
Transportation Consultants	Recommendations re facility design	1,500
Steer, Davies and Gleave	Survey Design	2,000
Total		\$38,500

Other (give details)

Cordon Survey Teams - 10 persons @ 6 surveys @ \$100/day	\$ 6,000
Advisory Panel - 5 members meeting three occasions	\$ 1,500
	\$
	\$
Total	\$ 7,500

2. Direct Project Costs

\$
\$
\$
\$
Total _____
\$ NIL

C-4 Details of Expenditure Items (continued)

Equipment hire/purchase (For equipment purchases you should allow for maintenance and running costs for the duration of the project)

Video Cameras (installed) - 3 @ \$1,500	\$ 5,500
Video Tapes and consumables - 50 x 3hour tapes @ \$4.00	\$ 200
Maintenance and Repair Video Cameras (under 1 year warranty only)	\$ 300
Infra-red Detection Devices 4 @ \$500 (plus installation)	\$ 2,000
	\$
Total	\$ 8,200

For equipment valued at more than \$10,000 – who will own the equipment once the project has been completed?
(Note: all equipment will be stored by MASSBUG/LBUG/BNSW and provided for use bicyclist and local community groups on an "at-cost" basis once project is completed)

Travel/vehicle expenses	
Hire of delivery van for equipment transport \$80/day for 5 days	\$ 400
	\$
	\$
	\$
	\$
Total	\$ 400

Insurance (other than workers compensation)

Provision of \$10,000,000 public liability cover	\$ 500
	\$
	\$
	\$
	\$
Total	\$ 500

Other direct project costs (please give details)

	\$
	\$
	\$
	\$
Total	\$ NIL

3. Documentation and communication

(total cost only required at C-3)

4. Other project expenditure

Accounting and auditing – (total cost only required at C-3)

Administrative costs – phone, stationery, postage etc. (total cost only required at C-3)

Other (give details)

Undertake "Travel Smart" trials for 10 persons @\$500	\$5,000
Provide Bicycle Proficiency Training - for 20 persons @ 150	\$3,000
	\$
	\$
Total	\$ 8,000

Section D - References

We require two independent referees who we can talk to about you and your project, if necessary.

Referee 1

Name Rolf Lunsmann

Title: Manager, Bicycle Unit Organisation: Roads and Traffic Authority, NSW

Qualifications/Experience

Address: 260 Elizabeth Street Sydney

Postcode: 2000

Phone no. 9218 3906 Fax no.

E-mail: rolf_lunsmann@rta.nsw.gov.au

Referee 2

Name: Neil Tonkin

Title: Executive Officer Organisation: Bicycle NSW

Qualifications/Experience

Address PO Box 272 Sydney

Postcode: 2001

Phone no. (02) 9283 5200 Fax no. (02) 9283 5246

E-mail: ntonkin@bicyclensw.org.au

Section E - Certification

Your chairperson or chief executive officer should sign this application.

I certify that, to the best of my knowledge, the information in this application is true.

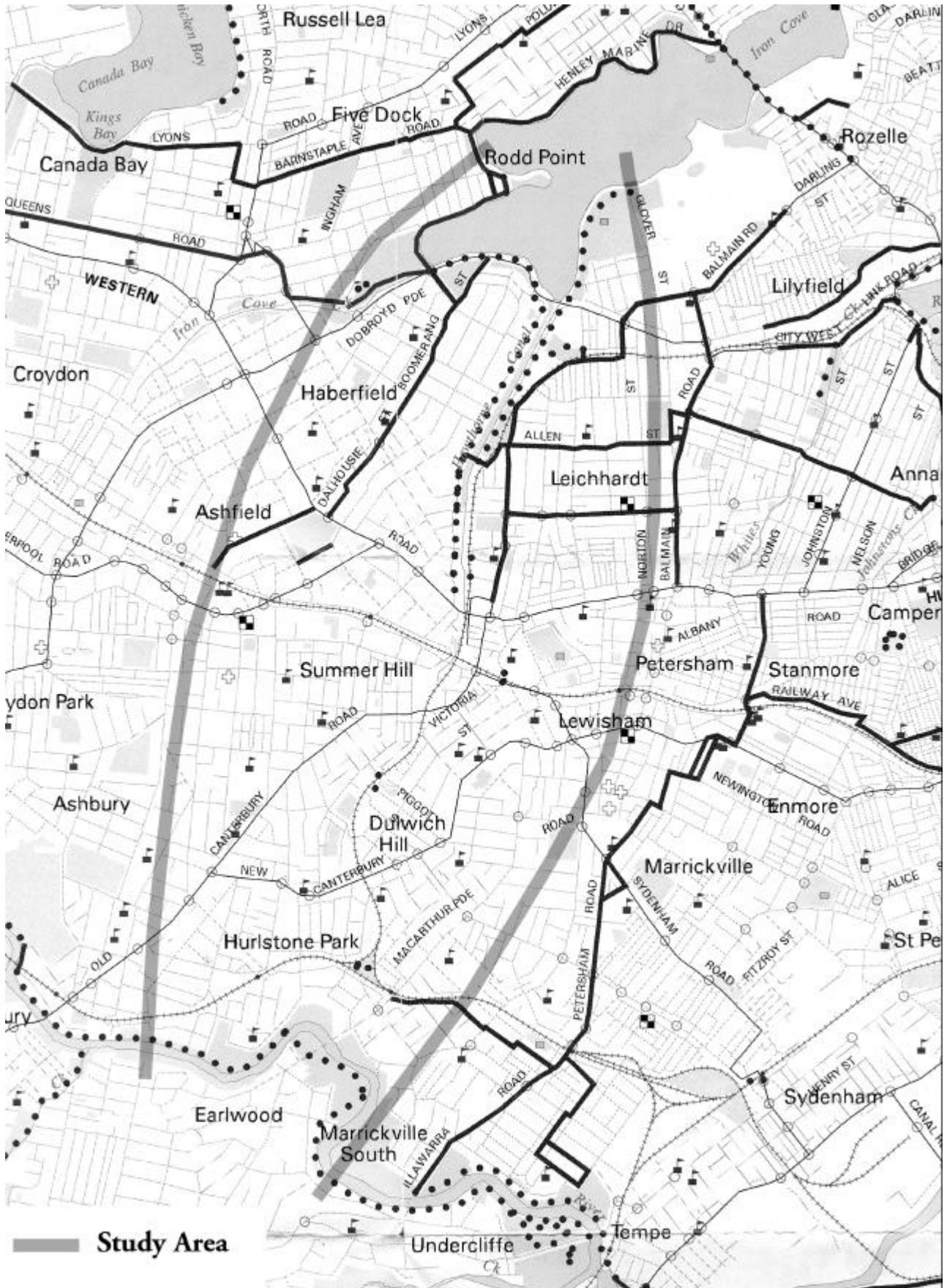
If the Environmental Trust approves this application, I will accept the conditions of the grant on behalf of my organisation.

Name Bruce Ashley

Signature _____ Date 14 July 2000

Position in organisation Convenor/Project Officer

ATTACHMENT A - Study Area



ATTACHMENT B - Curriculum Vitae

BRUCE ASHLEY *BSc (Forestry), Grad Dip Recreation Planning*

Contact

62A Windsor Road
Dulwich Hill NSW 2203
Phone (02) 9560 9281 email: ba@environmentworks.com.au

Education

1974 Matriculation - Telopea Park High Canberra
1979 Bachelor of Science (Forestry), Australian National University
1981 Graduate Diploma Recreation Planning, Canberra University College

Affiliations & Courses

Member, National Parks Association of NSW Inc., Coasts and Wetlands Society, Wilderness Society, Bicycle NSW
Remote Sensing Course for Engineers and Planners; Marine Biology & Ecology, University of Sydney; Environmental Awareness Course, Inst. Engineers Aust.; Summer School of Park Management, Canberra University; SCUBA - Open Water Certificate; Short Course in Computing: University of Sydney

Professional Experience

- **1989-Present** Principal *The Environment Works*. Environmental Consultant, in the fields of environmental assessment, strategic planning, resource management, recreation planning and bicycle planning.
- **1993-94** NSW Public Works, Water and Sewerage Branch. Contract position as Environmental Officer, responsible for co-ordination and preparation of environmental reports
- **1989-90** Tutor in Environmental Studies, Adult Education Program, Eurobodalla Shire.
- **1988-89** Senior Environmental Planner Travers Morgan (UK). Responsible for visual impact assessment, land use planning and environmental studies.
- **1985-88** Senior Environmental Planner, Gutteridge Haskins & Davey, Sydney. Responsible for project management of environmental, planning and resource projects.
- **1984-85** Freelance Consultant, recreation planning, Canberra
- **1981-84** Forest Officer, Forests Dept. of Western Australia. OIC Inventory & Planning Northern Region, Forest Officer (Operations) Collie Division.
- **1980-81** Research Assistant, Department of Forestry, ANU. Preparation of reports for Nepal Australia Forestry Project and Research Assistant to Dr K.R.Shepherd.

Major project experience includes:

- . Environmental Management and Rehabilitation Plan for Botany Wetlands
- . Landscape and Revegetation Plan for Narrabri Effluent Reuse Farm
- . Narrabri Sewerage Augmentation & Effluent Reuse Scheme, EIS and EMP
- . Bauxite Rehabilitation Monitoring Project, Darling Scarp Western Australia
- . Cycleways Along Rail Corridors Study, for NSW Department of Transport
- . Investigation of Ocean Disposal of steel industry solid wastes - BHP Port Kembla
- . Recreation Facility Development Strategy for Kosciuszko National Park
- . Plan of Management Wallis Island Crown Reserve
- . Western Sydney Leisure and Entertainment Strategy
- . National Highway Route Wakefield to Minmi vegetation and ecological assessment

Transport and Bicycle Planning

- *Cycleways Along Railway Corridors*. Project manager and principal consultant for NSW Department of Transport. Study investigated opportunities for cycleways along active or disused rail corridors in NSW, including detailed recommendations for six case studies
- *Ultimo-Pyrmont Bicycle Facilities*. For City of Sydney Council. Prepared detailed design solutions for local and regional bicycle routes in the Ultimo-Pyrmont precinct, and carriage of the proposals through the Traffic Committee process
- *Cycleways Within Rail Corridor*. Assist STC in concept development, feasibility and environmental assessment studies for the Parramatta-Liverpool, and Eastwood to Concord West rail-trails. For Roads and Traffic Authority NSW
- *Community-Based Bicycle Proficiency Scheme for NSW*. Project co-ordination, literature review, stakeholder consultation and concept planning for a development of a State-wide cycling proficiency scheme and training manuals, for Roads and Traffic Authority
- *Sydney Regional Bicycle Route Network*. Member of the Bicycle NSW consulting team to the Roads and Traffic Authority to prepare a regional cycle route network and prioritised implementation program including design and planning principles, and identification of desire lines mainly for inner Sydney component

Strategic and Planning Studies

- *Narrabri Effluent Reuse Farm Landscape and Revegetation Plan*. Comprehensive revegetation and restoration plan for 300ha farm at Narrabri NSW, including revegetation of 70ha with native endemic vegetation, planting of 10,000 seedlings (30 species) and development of a 3km long wildlife corridor and beneficial insect habitat. For DPWS NSW.
- *Plan of Management for the Botany Wetlands*. Project management, report preparation and strategic direction for rehabilitation and management of an important urban wetland system in Sydney Metropolitan Area. For GHD Pty Ltd on behalf of the Sydney Water Board.
- *Plan of Management Wallis Island Crown Reserve*. Preparation of Plan of management for island within Wallis Lakes, Forster NSW, including carrying out of a public consultation process and project co-ordination. For Crown Lands Office, Taree.
- *Development Strategy Eastern Approaches to Kosciuszko National Park*. For Department of Environment & Planning. Preparation of strategic study including resource analysis, landscape analysis and development strategy for land adjoining Kosciuszko National Park, leading to Regional Environmental Plan for the area.
- *Northern Region Forest Working Plan*. Preparation of a five year plan and resource management strategy for Northern Region Forests, Forests Department of Western Australia.

Environmental Assessment and Management

- *Assessment of Proposed nationals MTB Track Kowen Forest ACT*. For ACT Bureau of Sport Recreation and Racing. Prepare environmental assessment of 3.4km downhill MTB Nationals course, including impact assessment, site survey and assessment, identification of low-cost track construction techniques
- *Environmental Management for Wastewater Recycling*. Preparation of EIS, Environmental Management Plan and Revegetation Plan for 300ha wastewater recycling farm for Narrabri Shire Council, NSW. The scheme includes utilisation of treated effluent for agricultural crops, and involvement of the Narrabri High School as the Sharefarmer
- *Medway River Tunnel Environmental Statement*. Preparation of section report on visual impact assessment for submerged tunnel, Medway River, UK
- *Huskisson Regional Landfill EIS*. Specialist ecological survey and impact on natural systems report for proposed landfill site at Huskisson NSW. For Patterson Britton Partners
- *National Highway EIS - Wakefield to Minmi*. Impacts on biological systems including undertaking of comprehensive vegetation survey and supervision of input on archaeology, fauna and noise

Recreation Planning

- *Recreation Facilities Development Strategy for Kosciuszko National Park*. Preparation of guidelines for recreation development, road access and facilities provision, for National Parks and Wildlife Service, NSW
- *Conondale Region Recreation Development Plan*. Forest recreation strategy for south east Queensland forest areas. For Queensland Forests Department.
- *Emily Creek Recreation Lake*. Identification of recreation opportunities and constraints, facility planning and design, assessment of ongoing management costs for a recreation lake at Alice Springs
- *Western Sydney Leisure and Entertainment Strategy Study*. Joint project co-ordination and preparation of facility database, assessment of opportunities, recommendations for a regional leisure strategy. For NSW Department of Industry and Development
- *ACT Lakes and Rivers Recreation Demand Study*. Visitor demand and site assessment study, including aerial photographic assessment of visitor demand. For David Hogg Pty Ltd

PERSONAL DETAILS AND QUALIFICATIONS - Rod Katz

DATE OF BIRTH: 13th January, 1960
PLACE OF BIRTH: Melbourne, Victoria

Tertiary education

1978-1980 Bachelor of Economics, Australian National University
1978-1982 Bachelor of Laws, Australian National University
1992-1995 Masters of Transport Management, The University of Sydney
1993-1997 Doctor of Philosophy (Management), The University of Sydney

Professional association

1983 Admitted as a Solicitor of the Supreme Court of NSW after completing College of Law, practical legal training course

EMPLOYMENT HISTORY

December 1996 to present

- Editor Canberra Cyclist magazine.
- Vice President Pedal Power ACT Inc.
- Transport consulting and research including:
 - ◆ Team member of Sustainable Transport Consulting, an active transport consultancy
 - ◆ Advisor to a 'rails-to-trails' study for the NSW Department of Transport,
 - ◆ Background research on Bike Plan 2010 – the revised bikeplan for New South Wales with a budget of \$250 million over 10 years,
 - ◆ Western Sydney Regional Park: Economic analysis and patronage study,
 - ◆ Project leader for bicycle education curriculum development for years 7 to 9 in conjunction with the Australian Capital Territory Department of Education,
 - ◆ Consultant for Road Ready Evaluation project – a pre-driver training program being introduced in ACT schools during 2000,
 - ◆ Consultant to Queensland Government for development of new State Cycling Strategy,
 - ◆ Consultant to RTA NSW on greenhouse impacts of policies to replace car trips with bicycle trips.
- Author of chapter in 'The greening of transport' 1997 2nd edition, Rodney Tolley ed. John Wiley & Sons, New York. This is a widely distributed and highly regarded book on transport and the environment.
- Occasional lectures Australian Defence Force Academy school of geography, transport course.
- Conference papers Australian Transport Research Forum.
- Review of various PhD candidates' thesis research.
- Director, Secretary and Financial controller of family business.

1993 to 1996

Doctoral Research

October 1992: awarded a scholarship by the NSW Roads and Traffic Authority to complete a Ph.D in the area of demand for non-motorised transport.

Studies commenced in February 1993 at the Institute of Transport Studies, located within the Graduate School of Business at The University of Sydney.

Competencies developed in completing the thesis included econometrics, various market research and psychometric techniques, and transport modeling.

December, 1996: submitted thesis entitled 'Demand for bicycle use: A behavioural framework and empirical analysis for NSW'. Favourable examiners' reports were received by March 1997. The thesis employs transport planning, market research, econometric and psychometric techniques to evaluate demand for bicycle use in urban NSW.

The research generated considerable media attention and has been presented at a number of conferences in Australia and overseas.

In addition to the thesis and associated research for the Masters of Transport Management, various consultancy projects were completed and conference papers given.

Conference papers

Conferences attended included:

- Velo-City conference (1993), Nottingham, UK.
- Conference of Australian Institutes of Transport Research (1993), Melbourne (paper presented 'The bicycle industry as an indicator of demand for bicycle use')
- Australian pedestrian and bicyclist safety and travel workshop (1994), Melbourne (Papers presented 'Riding on footpaths: issues and evidence', 'Bicycle wholesaling: a review of the industry')
- Transport Research Board Annual General Meeting (1995), Washington D.C. (papers presented 'Modelling bicycle transport as a mainstream transport function', and 'A review of the state of the art in transport modelling in Australia')
- World Conference on Transport Research (1995), Sydney (paper presented 'Integrating bicycles into urban transport models')
- Velo Australis, Perth (1996) (paper presented 'Demand for cycling in urban NSW')

Consultant activity

1993: Monorail refinancing advice (TNT)

1993: Bicycle helmet wearing and law compliance study (Roads and Traffic Authority)

1993: Review of bicycle safety research (US Department of Transport)

1993: Review of the Australian bicycle industry (Bicycle Industry Traders' Association)

1993/4: Non-motorised transport research project – included investigations of existing information, importance, and funding requirements for non-motorised transport (RTA)

1994: Australian National Bicycle Information base (Federal Department of Transport)

1994: Cycling on footpaths (RTA)

1994: Frequency elasticity of demand for bus services (State Transit Authority)

1995: Community based bicycle proficiency scheme (RTA)

1995: Lectures on financing transport infrastructure in Australia (The University of Sydney)

1996: Rails to Trails project (NSW Department of Transport)

1987 to 1993

Employed by TNT Limited, initially as Finance Officer and, from 1990, as Manager- Corporate Finance in the TNT Group Treasury. This position involved responsibility for a considerable portion of TNT's financial activities, specifically:

- information systems for liquidity management
- cash budgeting and financing plans for TNT's worldwide operations
- preparing Board reports analysing particular funding requirements and strategies
- managing relationships with major bank lenders
- preparation of information memoranda identifying TNT's financial and business plans
- negotiation of financings for TNT and a number of its associates (including Ansett, East-West Airlines, and the Union Shipping Group).

1984 to 1987

Credit analyst and then Corporate Manager, Banque National de Paris. This involved managing the overall banking requirements of a portfolio of corporate clients and marketing the bank's services to a range of medium sized corporations.

ELIZABETH AMPT

Nationality: Australian Year of Birth: 1949

Education:

Flinders University of South Australia, B.A. Geography (Hons), 1970

Flinders University of South Australia, M.A. Geography, 1973

Languages: German

Summary

Liz is a specialist in the field of travel behaviour research (particularly understanding reactions to constraint measures and potential for individual change), survey design, social research and stated preference techniques in transportation. She has been involved with a wide range of organisations including, working with the Transport Studies Group in the University of Westminster, and serving as Deputy Director of the Transport Research Centre in the University of Melbourne; Director of Ampt Applied Research, (Sydney); Information Manager for the Ministry of Transport.

SUMMARY OF EXPERIENCE

BEHAVIOURAL RESEARCH: REDUCING THE IMPACT OF THE CAR

Travel Blending as a Tool For Emissions Reduction Credits, (1999-2000) New Jersey Department of Transport, U.S.A.

A Total Community Approach to the Reduction of the Impact of the Car (1998-2000) Transport SA, Adelaide, Australia

A Green Transport Initiative, Transport SA, Adelaide, Australia

A Green Transport Plan for Manchester Airport (1998)

A Scheme to Reduce the Impact of the Car in Santiago, Chile (1997-1998)

Implementation of Travel Blending in Leeds (1997)

Does Travel Blending add Value to Green Commuter Plans?, Nottinghamshire County Council (1997)

A Strategy for Car-Use Reduction in Adelaide - Travel Blending (1996-1997)

A Strategy for the Implementation of TravelWise in Leeds (1996)

Travel Choice Blending, NRMA - Sydney (1995)

DESIGN AND ADVICE OF SURVEY METHODOLOGY

Project Director, Potential for the Reduction of Short Car Trips (1998) for the Department of Environment, Transport and the Regions, UK.

Project Director, Forecasting of Travel Behaviour for the 2000 Olympics, (1998) Olympic Roads and Traffic Authority, Sydney.

ESTRASUR Study: Design of a Data Collection Method for Southern Chile (1997)

Assessment of the Risk of Accident and the Willingness to Pay to Reduce Risk in New Zealand (1996-1997)

Origin-Destination Study in Santiago, Chile (1996-1997)

Specialist Advisor: Sydney Ongoing Household Travel Survey (1996)

Specialist Advisor: New Zealand Household Travel Survey (1996)

Joint Project Director, Victorian Integrated Travel, Activity and Land Use (VITAL) Database (1993 -1995)

Joint Project Director, "Sydney Central Business District Demand Study" for Sydney City Council (1993)

Preparation of a Special Report on Data Collection, London Research Centre (1993)

Project Director, "South East Queensland Household Travel Survey" for Queensland Transport (1992 - 1993)

Project Director, "Melton-Bacchus Marsh Transport Study" for the Public Transport Corporation (1992)

Joint Project Director, "Design of the 1992 Melbourne Area Personal Travel Survey" for VicRoads (1991)

Project Manager, "1991 Singapore Travel Survey" with the Transport Studies Unit (TSU), Oxford University for the Public Works Department, Singapore (1990-1991)

Project Manager, "Very Fast Train 2nd Phase Feasibility Study" for the VFT Joint Venture (1990 - 1991)

Project Director, "1989/1990 New Zealand Travel Survey - a Study of Exposure to Risk" for New Zealand Ministry of Transport, Road Traffic Safety Research Council (1988 - 1990)

Project Manager, "Very Fast Train Feasibility Study (1)" for Very Fast Train Joint Venture (1987 - 1988)

Specialist Advisor, "1986 Adelaide Household Travel Survey" for Department of Transport (1987 - 1988)

Project Manager, "Traffic Management Strategy Study in the Sydney Central Business District" for the NSW Ministry of Transport (1987)

POLICY ADVICE: REDUCING THE IMPACT OF THE CAR

Quality Public Transport: Presenting a Strategy which Recognises the Role of Public Transport, Transport 2000 (1996)

Balanced Communities: Reducing the Need to Travel by Car, Staffordshire County Council (1996)

STATED PREFERENCE DEVELOPMENT

Bus Passenger Priority Study, London Transport Buses (1995)
Northern Corridor Study, Sea Containers (1994)
Technical Advisor, "North Coast Road Strategy Study Holiday Survey" with Denis Johnston Associates for the Road Traffic Authority, Sydney, Australia (1991)
Project Manager, "Noosa-Maroochydore Tollway Study" for Main Roads, QLD(1988)
Specialist Advisor, "Peak Spreading in Adelaide" for Department of Transport with Transport Studies Unit, Oxford University (1987)
Specialist Advisor, "Tests of a Fully Interactive Stated-Preference Approach to Study Bus Service Provision Options" for TSU, Oxford University and Department of Transport, London (1986)

EVALUATION OF NEEDS

Evaluation of Transport Data from the Australian Living Standards Study (1994)
Project Director, Assessment of Customer Needs for Commenting on MetRail for the Public Transport Corporation of Victoria (1994)
Project Director, "Community Attitudes to Transport" for VicRoads and the Australian Road Research Board (1992)
Project Director, "Assessment of a High Occupancy Vehicle Lane" for VicRoads (1992)
Specialist Advisor, "Possible Reactions to Possible Options for Dealing with Future
Project Director, "Adelaide Public Transport Service Standards Review: Customer Preference Study" for State Transport Authority (1990)
Joint Project Director, "Attitudes to Bus Travellers" for Urban Transit, Sydney (1988)
Project Director, "Evaluation and Market Assessment of Passengers on the Abel Tasman" for Transport Tasmania (1986)
Project Manager, "Evaluation of Potential Demand for a Proposed New Public Transport System" for Warringah Shire Council, Sydney (1985)

DEMAND FORECASTING

Project Director, Evaluation of Existing and Potential Airline Services in Regional Western Australia for the WA Department of Transport (1994)
Independent Reviewer, Pyrmont Light Rail Demand Forecasting Study for NSW Department of Transport (1993)
Independent Reviewer, Sydney Airport Rail-Link Patronage Demand Study for Transfield/NSW DOT (1993)
Project Director, "Multi-modal Ticketing for the Private Bus Industry" for Urban Transit Authority (1987)

BEHAVIOURAL RESEARCH: EVALUATION OF RESTRAINT MEASURES

Traffic and Parking Demands in Congested Urban Areas" for Transport Studies Unit, Oxford University and Department of Transport, London (1991)
Technical Assistance, "Priority Routes (2) Study" for TSU, Oxford and the Department of Transport, London (1991)
Technical Assistance, "Traffic Restraint Study" for TSU, Oxford and the Department of Transport, London (1991)
Technical Advisor, "Priority Routes" for TSU, Oxford and the Department of Transport, London (1990 - 1991)
Specialist Advisor, "Traffic Restraint in London" for TSU, Oxford University (1989)

POLICY ADVICE: PUBLIC TRANSPORT AND GENERAL

Project Director, "Data Needs Specification for a Transport Policy Information System in NSW" for the NSW Department of Transport (1991)
Project Director, "Rationalisation of Urban Bus Services" for the State Transit Authority, South & West Division, Sydney, Australia (1990 - 1991)
Project Director, "Impacts of Reductions in Bus Services" for State Transit Authority, NSW (1989)
Project Director, "Trial of Increased Competition of Long-Distance Coach Services on the South Coast of NSW" for the Ministry of Transport, NSW (1987)
Specialist Advisor, "Newcastle Transportation Study - Public Transport Section" for Newcastle City Council (1987)
Project Manager, "Public Awareness Study" for Melbourne Transit Authority, Melbourne (1985)
Project Manager, "Public Awareness Study for Metropolitan Transport Trust, Perth (1985)
Project Manager, "Demonstration Project for the Situational Modelling Approach" for Ministry of Transport, Melbourne (1985)
Technical Advisor, "Development of Pre-Trip Information Simulation Exercise" for TSU, Oxford as part of the European Commission's DRIVE Program (1990)

ATTACHMENT C - Letters of Support