ATTACHMENT A

RESULTS OF PARKING SURVEY IN THE PARLIAMENTARY ZONE FOR JUNE/JULY 2003

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National Capital Authority

Report on Parliamentary Zone Parking Survey 2003

By Datacol Research Pty Ltd ACN 088 368 709

August 2003

Executive Summary

- Datacol Research was commissioned by the National Capital Authority to conduct a series of parking and pedestrian surveys to establish:
 - 1) the typical demand for parking within the Parliamentary Zone, and
 - 2) the extent to which cross use between facilities and car parks occurred.
- There are a total of 4160 off-street car parking spaces available in the zone. These are divided between 362 short stay spaces (three hours or less) and 3798 long stay spaces (no time restriction). Some 3272 of these spaces are all day unrestricted car spaces and the remaining 526 are a mixture of Commonwealth, reserved, and disabled parking spaces.
- There are some 602 on street car parking spaces of which 336 are short stay, 146 unrestricted and the remaining 115 are other vehicle restricted long stay spaces.
- Two parking surveys were conducted, one on Friday 6th June (Survey One) and the other on Wednesday 11th June (Survey Two). Survey One found a total of 272 vehicles parked in short stay spaces and 2242 vehicles in long stay spaces, representing utilisation rates of 75% and 72% respectively. Survey Two found a total of 225 vehicles parked in short stay spaces and 3060 vehicles in long stay spaces, representing utilisation rates of 62% and 81% respectively.
- The surveys found that the parking utilisation rates for the all day component of the parking, that typically used by commuters, were 78% in Survey One and 88% in Survey Two.
- Survey One found that 35% of the on-street short stay parking was utilised while 33% of the long stay on-street parking was being used. Figures were similar for Survey Two with 30% of the short stay spaces occupied and 33% of the long stay spaces occupied.
- Pedestrian Surveys were conducted at five separate locations. These locations were chosen because they are places where the on-site parking is insufficient to meet demand and significant use of other off-site car parking takes place.
- Three separate surveys found totals of 638, 681 and 607 pedestrians crossing Kings Avenue between Parkes and Barton. Most of the foot traffic was Eastbound towards Barton. Some 83% of the foot traffic crossing towards Barton originated in Car Park 11 in Parkes.
- A small number of people, 33, were found to park in Car Park 14 and then travel elsewhere by bus or walk across Commonwealth Avenue to Yarralumla.
- A small number of people, 28, were found to be using the National Gallery Car Parks and walking across to the Finance/Treasury Building.
- A larger number, 69 persons, were found to be parking in the National Gallery Car Park and walking to either the John Gorton Building (55) or to Barton (14).
- It is estimated that 65% of the 585 spaces available in Car Park 11 are being used by persons working in Barton and the remaining 35% are being used by people working in, or visiting, the Parliamentary Zone.
- The Vehicle Occupancy Survey at Car Park 11 found the vehicle occupancy of 1.04 for vehicles entering the car park.

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Background

The purpose of this parking study is to determine the level of parking demand on typical business days in the Parliamentary Zone and to determine the number of commuters that park within the Zone but work in other areas (such as Civic or Barton).

A further component of the study is to assess whether there is observable use of short stay parking at the National Gallery and the National Library by office workers who regularly move their vehicles to avoid infringements.

Method

Observation surveys were conducted on Friday 6th June 2003, Wednesday 11th June 2003 and Thursday 24th July between 7:30am and midday. Parking supply for on-street parking was measured between Monday 21st July 2003 and Thursday 24th July 2003.

The area for the survey was bounded by State Circle, Kings and Commonwealth Avenues and Lake Burley Griffin.

All publicly accessible on street and off street car parking was included in the survey.

In addition a number of pedestrian counts were conducted in which the origin, destination, direction and number of pedestrians were counted. This was done to establish the extent to which car parks were being used by persons from sites other than those for which the car park was intended.

Furthermore, a number of less formal counts and observations were taken ranging from the period Thursday 5th June 2003 until Friday 20th June 2003 last week to assist in understanding the pedestrian and parking dynamics of the area.

This report references the parking supply study of August 2002 by WP Brown & Partners Pty Ltd. A copy of this study is supplied as Appendix A.

Off Street Parking Survey Results

Parking Supply

Table 1 - Parking Supply for Off Street Parking

	Short S	stay		Total				Ē	Long Stay				Total	Grand
				Short Stay									Long Stay	Total
30m 1h		2h	Зh		Day	DA	S S	Res	M/C	Ľ	Taxi	Bus	•	
0	-	0	0	0	104	0		0	0	8	0	0	0 112	2 112
0	-	0 55	0	55	154		6 1	2	0	0	0	0	0 172	
0			0	0	89	N		0	0	4	0	0	6 0	95 95
0		0	0	0	210	0		0	0	0	0	0	0 210	N
0		0	0	0	0	0		0 67	2	0	0	0	0 67	
0	0	Ļ	8	18	0	-		0	0	0	0	0	0	19
0	0		0	0	40	0		0 21		0	0	0	0 61	
0	0		0	0	0	0		0 71	-	0	0	0	0 71	1 71
0	0		0	0	158	4		0 10		4	0	0	0 176	-
0	0		0 197	197	0	7		0	9	0	9	0	8 27	
0	0		0	0	585	0		0	0	0	0	0	0 585	
6	0		0	6	289		84		0	0	0	0	0 379	9 388
0	0		0	0	202	0	25	36		0	0	0	0 273	
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0	0	0	0	0	14	0		0	-	0	0	0		
0	0	0		0	14	0		0 0		0	0	0		
0		106	247	362	3272	36	207	214	46		11	0	12 3798	3 4160

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Survey One - Friday 6th June 2003 – Parking Demand

Table 2 - Off-street Parking Demand

Cal Tark		S	Short SI	Stay		Total Short Stay				Lon	Long Stay				Total Long Stav	Grand Total
	15m	30m	11	2h	3h	- , .	Dav	DA	20	Res	MIC	1	Tavi	i Ruc	f	
1 National Library - West	0		0				0 106			1		1		4		
2 National Library - East	0	0		2									5	5		
3 Science Centre - Paved	0								-			5 0	5	5		
4 Science Centre - Unpaved												5 0	5			
5 Science Centre - Underground	Not Ac	Cess									h	n	0	0	0 11	111
6 High Court - East Side	0	0			3 0	*										
7 High Court - Public Underground	0						ſ							5	1	
8 High Court - Staff Underground	Not Ac	Not Accessible	1									5	5	5	0 27	27
9 National Gallery - Underground	P	0					0 74						<			
10 National Gallery - Main	0	0			14	14						5	2 0	50	<u> </u>	
11 Administration Building - East		0			-	•	2 2					50	5	5		
12 Administration Building - West	0	6						1				50	5 0	5		
13 Treasury - Newlands St	C	C										0 0	70	0		
14 Treasury - Lanaton Cres												N	0	0	0 242	
15 West Block - Pocket Car Park							4		N				0	0	0 465	465
16 West Block - Main								0	0	0		3	0	0	0 34	34
17 Dieen Victoria Tca Maat						0		*	18	0		0	0	0	0 217	2
18 Old Parliament House						0		0	0	0		0	0	0	0 23	23
(Parliamentary Square)	>	2	>	>	44	44	66	4	с С	0		0	0	0	1 103	147
19 Queen Victoria Tce - East	Car Park Closed	rk Clos		Construction		Site)				-						
20 East Block - Main	0	0	1		0		242	C	c			lu				
21 East Block - Pocket Car Park	0		C			101				_					×4	V
22 Federation Mall - West	C												0	0	0	10
23 Federation Mall - Fast							,	0	0			0	0	0	0	
Car Park Total		2	50			0			0	0		0	0	0	0	
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Survey One - Friday 6th June 2003 – Utilisation Rates

Table 3 - Off-street Parking Utilisation

	1/10.1 <u></u>	S	Short Stay	tay		Total Short Stav				Long	Long Stay				Total Long	F	Total
No Location	15m	30m	ŧ	2h	3h	,	Day	DA	S	Res	M/C	LZ	Taxi	Bus	oldy .	N	%
1 National Library - West		1	1	1	1	4	102%	1	1	•	13%			4	96%	107	06%
2 National Library - East	1	1	4	93%	+	93%	82%	50%	67%	*			•	1	20 V0	180	70°C
3 Science Centre - Paved	1	ł	T	F	t.	-	79%	%0		1	%0	•			7072	20 C	7 20/2
4 Science Centre - Unpaved	E	1	1	1	*		53%	,			>		•	•	14/0	2	14%
5 Science Centre - Underground	Not A	Not Accessible	ble				200		-		ŧ	•	•	\$	53%	ELL	53%
6 High Court - East Side			1	72%	1	72%	1	%0		1	4				/00	C T	/000
7 High Court - Public Underground	F	1	1	1	+		68%		1	760			•	ı	0/0	2 6	00.00
8 High Court - Staff Underground	Not A	Not Accessible	ble			***	2			222	- -	F	E	*	44 %	77	44%
9 National Gallery - Underground			•	+	F		45%	%0	+	60%	%0	\$	1	1	70 / /	77	10/1
10 National Gallery - Main	4	1		1	74%	74%	1	57%	E	%0	, ,	0%0	1	63%	33%	154	80% 80%
11 Administration Building - East	1	4	1	1	*	1	93%	4		F	•	1	1	, , , ,	030%	575 572	0207
12 Administration Building - West	1	100%	1	4	F	100%	90%	50%	75%	1	f	E	E	1	2000 2000	226	0/ CC
13 I reasury - Newlands St	t	1	y	+	1		101%	1	140%	%0	20%	t	1	•	89%	242	80%
14 I reasury - Langton Cres	,	1	ł	F	F	•	100%	1	56%	<u> </u>	%U	F			020/		020/0
15 West Block - Pocket Car Park	*	E		%0	•	%0	97%		0%0	0%0	38%	%0		3	80 % 67%	C01	%0% 20%
16 West Block - Main	1	F	•	J	1	3	56%	33%	106%		2 +		1		580%	5 5	20 /0 7 20/
1/ Queen Victoria Tce - West	1	ł	ŧ	1	1	1	52%	F	I				1	+	520%	1 2 7 7	500%
18 Old Parliament House (Parliamentary Square)	1	+	I	\$	88%	88%	95%	25%	75%	•	1	%0	1	25%	87%	147	88%
19 Queen Victoria Tce - East	Car P	Car Park Closed (Construction Site)	sed (C	onstru	ction S	ite)											
20 East Block - Main	ŧ	1	•	*	•	1	60%	%0	25%	•	,	1	5	1	58%	245	58%
21 East Block - Pocket Car Park	•	1	1	34%	ş	34%	1	1	I	,	%0	3	1	1	%0	20	30%
22 Federation Mail - West		1	1	*	·	1	7%	ĩ	F	•	,	1	1	1	7%	-	7%
23 Federation Mail - East	1	+ +	5	1	3	ł	7%	ŧ	,	5	1	1	+	t	7%		7%
	,	100%	1	20%	77%	75%	78%	7026	7072	20/	1001	1001					

Over 100% means that there are cars parked outside marked spaces. This can occur with cars parking informally on verges and landscaped areas within or around the car park. It can also occur through illegal parking alongside red curbs and within aisles.

The supply for Car Park 12 is different from that stated in the WP Brown Report of 2002 because of building works. બં ખં

Utilisation rates were calculated by finding the percentage of available spaces that were occupied at the time of the survey.

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Survey Two - Wednesday 11th June 2003 – Parking Demand

Table 4 - Off-street Parking Demand

	103	247		157	101	10	- - -	-	145		542	347	243	502	23	196	35	143		405	200	10	2 C	3005
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	1 National Library - West	2 National Library - East	3 Science Centre - Paved	4 Science Centre - Unpaved		1	7 High Court - Public Underground	renorm <u>e</u>	9 National Gallery - Underground	10 National Gallery - Main	11 Administration Building - East	12 Administration Building - West	13 I reasury - Newlands St	14 Ireasury - Langton Cres	5 West Block - Pocket Car Park	to West Block - Main	/ Queen Victoria Ice - West	8 UId Parliament House (Parliamentary Square)	ast	20 East Block - Main	21 East Block - Pocket Car Park	22 Federation Mall - West	33 Federation Mall - East	Car Park Total
	15m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus	t 15m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus / 0 0 0 0 0 0 102 0 0 0 0 0 0 0 0 0 0 0 0	15m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus 0 0 0 0 0 0 0 0 0 0 103 0 0 0 0 48 156 2 11 0	15m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus t 0 0 0 0 0 10 0 0 103 1 d 0 0 0 102 0 0 0 0 0 103 1 d 0 0 0 48 156 2 11 0 0 0 169 2		I5m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus 0 0 0 0 0 102 0 0 0 0 0 103 0 0 0 0 48 156 2 11 0 0 0 0 169 0 0 0 0 0 0 0 0 0 0 169 0 0 0 0 0 0 0 0 0 0 169 Not Accessible Accessible 157 0 0 0 0 0 0 157	15m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus 0 0 0 0 0 102 0 0 0 0 0 103 0 0 0 48 156 2 11 0 0 0 103 0 0 0 0 0 0 0 0 169 0 0 0 0 0 0 0 0 0 169 Not Accessible 0 18 0 157 0 0 0 0 0 0 157	15m 30m 1h 2h 3h Day DA CV Res M/C LZ Taxi Bus 0 0 0 0 0 102 0 0 0 0 103 0 0 0 0 148 156 2 11 0 0 0 103 0 0 0 0 0 0 0 0 0 169 169 0 0 0 0 0 0 0 0 0 169 169 Not Accessible <	15m30m1h2h3hDayDACVResM/CLZTaxiBus000000000000103000001020000000103000000000000169000000000000157Not AccessibleAccessibleAccessibleAAAAAAANot AccessibleAccessibleA0000000Not AccessibleAccessibleAAAAAAA						15m30m1h2h3hDayDACVResM/CLZTaxiBus001000000000000100000000000010000000000001000000000000100000000000010000000000001000000000000100000000000010000000000001000000<			15m 30m 1h 2h 3h Day DA CV Res MC L Taxi Bus MC at 0 0 0 0 0 0 0 0 0 0 0 0 103 0 103 0 0 0 0 0 0 0 0 0 0 0 0 0 103 0 103 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						

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Survey Two - Wednesday 11th June 2003 – Utilisation Rates

Table 5 - Off-street Parking Utilisation

No Location						Short Stay				FOIL	Long stay				Long		Total
	15m	30m	1h	2h	Зh	`	Day	DA	2	Res	M/C	LZ	Taxi	Bus	Ś	N	%
1 National Library - West			1	8	t	######################################	98%	1	+	1	13%	ł	F	•	%66	103	92%
2 National Library - East	1	ł	t	87%	ŀ	87%	101%	33%	92%	1	1	ŧ	t	•	98%	217	96%
3 Science Centre - Paved	E	•	•	1	•	1	90%	%0		F	%0	•	1	1	%7%		7018
4 Science Centre - Unpaved	*		1	1	1		75%	1		•		1117781 - Market			1201	В 7 7	0 t %
5 Science Centre - Underground	Not /	Not Accessible	ole										F 1	1	0/01		0/0/
6 High Court - East Side	1	*	+	100%		100%	ł	%0	+	•	1	+	1	1	70U	ά	0£0/
7 High Court - Public Underground	, q		1	1	1	-	30%	1	1	0%0	1		1.00000	F	20%	2	30%
8 High Court - Staff Underground		Not Accessible	ole														
9 National Gallery - Underground	•	F		1	•		89%	25%		30%	0%0	T	. 1	1	82%	145	82%
10 National Gallery - Main	3	1	1	1	44%	44%	1	0%0	,	%0	1	0%	F	%0	%0	87	39%
11 Administration Building - East	1	ł	ł	E	ł	ł	93%	t	+	+	ı	1	1	-	93%	542	93%
12 Administration Building - West	•	89%	•	•	•	89%	92%	33%	81%	1		ŧ	ŧ	ł	89%	347	89%
13 I reasury - Newlands St	1	•	1	1	1	•	98%	ı	148%	0%0	%06	I	1	F	89%	243	89%
14 Ireasury - Langton Cres	•	•	,	1	۱	I	106%	1	81%	1	%0	,	E	1	102%	502	102%
10 West Block - Pocket Car Park	1	1	1	%0	Ŧ	%0	56%	1	0%0	%0	63%	0%0		E	42%	23	39%
10 West Block - Main 17 Output Victoria Tan West	•	1	F	F	ı	4	52%	67%	53%	1	4			1	53%	196	53%
	1	1	ŧ	t	1	1	80%	1	1	1	1	1	ŧ	ŧ	80%	35	80%
Io Ula Parliament House (Parliamentary Square)	1	ŧ	t	1	88%	88%	93%	25%	25%	1	1	0%0	1.	25%	84%	143	85%
19 Queen Victoria Tce - East	Car P	Car Park Closed (Con	sed (C		struction Site)	te)											
20 East Block - Main	1		+	1	4	1	100%	%0	8%	3	•	I	F	Ŧ	96%	405	96%
21 East Block - Pocket Car Park	t	F	I	69%	F	69%	,	ŧ	1	ı	%0	3	1	1	0%0	20	61%
22 rederation Mall - West	+	•	ŧ	1	ŧ	•	71%		3	1	,	1	ŧ	t	71%	10	71%
23 rederation Mall - East	1	1	1	ŧ	I	ł	%0	1	ŧ	7	4	1	3	3	0%0	2 0	%0
	1	89%	F	81%	53%	62%	88%	22%	78%	1%	33%	18%	î	8%	81%	3285	79%

Over 100% means that there are cars parked outside marked spaces. This can occur with cars parking informally on verges and landscaped areas . |-----

within or around the car park. It can also occur through illegal parking alongside red curbs and within aisles. The supply for Car Park 12 is different from that stated in the WP Brown Report of 2002 because of building works.

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Utilisation rates were calculated by finding the percentage of available spaces that were occupied at the time of the survey.

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Parking Supply Table 6 - Parking Supply for On Street Parking

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Survey One - Friday 6th June 2003 – Parking Demand

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Survey One - Friday 6th June 2003 – Utilis	Table 8 - On-street Parking Utilisation Park ocation

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Survey Two - Wednesday 11th June 2003 – Parking Demand

Table 9 - On-street Parking Demand

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Vednesday 11th June 2003 – Utilisation Rates	
Survey Two - Wednesday 11th Ju	Table 10 - On-street Parking Utilisation

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Over 100% means that there are cars parked outside marked spaces. This can occur with cars parking informally on verges and landscaped areas within or around the car park. It can also occur through illegal parking alongside red curbs and within aisles. Utilisation rates were calculated by finding the percentage of available spaces that were occupied at the time of the survey. 5

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Pedestrian Surveys

In addition to the car park counts a series of pedestrian surveys were conducted at five separate locations within the Parliamentary Zone. These locations were chosen because they are places where the on-site parking is insufficient to meet demand and significant use of other off-site car parking takes place. These locations include Car Park 11 and it's use by commuters from both Parkes and Barton, the use of Car Park 14 by city commuters or workers in Yarralumla, the National Library Car Parks and the National Gallery Car Parks.

Pedestrian Movement across Kings Ave

Since the recent redevelopments in Barton have commenced considerable pressure has been placed on commuter parking and there has been some overspill into Parliamentary Zone. Evidence suggested that considerable pedestrian foot traffic crossed between the Edmund Barton building and Car apark11 in parkers. Accordingly a series of three surveys was conducted to measure the extent to which this was happening.



Figure 1 - Diagram showing location of survey across Kings Ave

Survey One - Friday 6th June 2003

On Friday 6th June 2003, 638 pedestrians were seen to cross Kings Avenue. The vast majority of these pedestrians (553 or 87%) were exiting Car Park 11 and walking to the Edmund Barton Building. The remaining 85 people (representing 13% of the total number of pedestrians) were observed leaving the Edmund Barton Building and walking into Car Park 11.

The peak hour for pedestrians walking to the Edmund Barton building from Car Park 11 occurred between 8.00am and 9.00am when 397 or 71.8% of the total number walking in this direction were counted.

Period Ending	Across Kings Avenue (Eastbound)	Across Kings Avenue (Westbound)	Total
0730	7	1	8
0745	18	0	18
0800	25	5	30
0815	59	8	67
0830	107	8	115
0845	136	9	145
0900	95	8	103
0915	33	10	43
0930	21	13	34
0945	25	3	28
1000	14	11	25
1015	13	9	22
Total	553	85	638

Table 11 - Kings Avenue Pedestrian Survey One

Also 3 people from Car Park to Bus Stop on West Side.

Survey Two - Wednesday 11th June 2003

The number of pedestrians observed crossing Kings Ave between the Edmund Barton Building and Car Park 11 on Wednesday 11th June 2003 is slightly higher than the number counted on Friday 6th June 2003.

Again, the majority of the pedestrian traffic at this point were leaving Car Park 11 and travelling East into the Edmund Barton Building. The number of pedestrians making this journey between 7.15am and 10.00am was 599 which equates to 88% of the total number of pedestrians counted.

The peak hour for pedestrians walking from Car Park 11 to the Edmund Barton Building was between 8.00am and 9.00am when 451 (75%) were counted.

Period Ending	Across Kings Avenue (Eastbound)	Across Kings Avenue (Westbound)	Total
0730	7	3	10
0745	21	1	22
0800	42	5	47
0815	84	10	94
0830	106	3	109
0845	129	11	140
0900	99	9	108
0915	55	14	69
0930	31	8	39
0945	11	6	17
1000	14	12	26
Total	599	82	681

Table 12 - Kings Avenue Pedestr	ian Survey Two
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Survey Three - Thursday 24th July 2003

•		Eastbound			Westbound		
Period Ending		Across Kings Avenue from other	Total Eastbound	To Car Park 11	To other	Total Westbound	Total
07:30	10	2	12	2	0	2	14
07:45	10	3	13	2	0	2	15
08:00	31	3	34	4	0	4	38
08:15	70	11	81	2	1	3	84
08:30	67	5	72	2	1	3	75
08:45	126	21	147	2	1	3	150
09:00	84	9	93	4	6	10	103
09:15	26	17	43	11	0	11	54
09:30	12	15	27	6	2	8	35
09:45	10	7	17	2	0	2	19
10:00	12	1	13	6	1	7	20
Total	458	94	552	43	12	55	607

Table 13 - Kings Avenue Pedestrian Survey Three

The three Kings Avenue pedestrian surveys reveal significant foot traffic across the road from Car Park 11 in Parkes to Barton. This suggests that a substantial number of the vehicles parking in Car Park 11 are destined for Barton. The series of surveys conducted on Thursday 24 July 2003 were designed to shed light on this matter and are dealt with in the next section.

The third Kings Avenue pedestrian survey (results in Table 13) classified pedestrians crossing Kings Avenue according to whether they had originated from Car Park 11 or had originated from elsewhere. Several alternative origins are possible and indeed were measured in the third survey. The alternative origins include: the bus stop on the West side of Kings Avenue; vehicle set-downs on the west side of Kings Avenue; the footpath along King George Terrace; and the footpaths along the west side of Kings Avenue to the north of King Edward Terrace.

The third survey results yielded a total of 552 pedestrian crossing Kings Avenue from West to East. The other two surveys had given counts of 540 and 599 in the same direction. The weather on Thursday 24 July was particularly inclement with strong winds and some rain during the survey period and may have influenced the pedestrian traffic somewhat. The two previous surveys had been conducted on a Wednesday and a Friday.

The results from the third survey allowed the separation of the total foot traffic of 552 persons into the component originating from the Car Park 11, which was 458 or 83%, and the component originating elsewhere, which was 94 persons or 17% of the total.

The three surveys show a consistent level of foot traffic of between 540 and 600 persons during the morning period from 7.15 am and 10.00 am. This approximately 10% variation from day to day is consistent with traffic generation data elsewhere in Canberra.

Pedestrian Movement from Car Park 14 to Commonwealth Avenue – Friday 6th June 2003

There has been some anecdotal evidence of the use of Car Park 14 by persons commuting to Civic. Accordingly a survey was taken to count persons leaving Car Park 14 via the footpaths linking it to Commonwealth Avenue on Friday 6th June 2003.



Figure 2 - Diagram showing location of survey from Car Park 14 to Commonwealth Avenue

A total of 33 persons were observed leaving Car Park 14 during the 3 hour period from 7.30am to 10.30am. Of these, 7 (21%) were observed to proceed to the southbound bus stop on Commonwealth Avenue, 15 (45%) were observed using the Commonwealth Avenue underpass to get to the northbound bus stop on the west side of Commonwealth Avenue. The remaining 11 (33%) were observed to travel to the Hyatt Hotel on the West side of Commonwealth Avenue. No pedestrians were observed to cross Commonwealth Avenue at grade, rather all used the pedestrian underpass. The peak hour for pedestrian movements occurred between 8.15am and 9.15 am which saw 23 (70%) persons leave Car Park 14.

Table 14 - Commonwealth	Avenue	Pedestrian	Survey
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	Exit Car	Park 14 via S	Southern Foo	tpath Exit	Exit Car]	Park 14 via N	Vorthern Foo	tpath Exit	
Period Ending	To Southbound bus stops	To Northbound bus stops via tunnel	To Northbound bus stops at grade	To Hyatt	To Southbound bus stops	To Northbound bus stops via tunnel	To Northbound bus stops at grade	To Hyatt	Total
0730	0	0	0	0	0	0	0	0	0
0745	1	0	0	1	0	1	0	0	3
0800	0	1	0	1	1	0	0	0	3
0815	0	0	0	0	0	0	0	1	1
0830	0	0	0	1	1	0	0	1	3
0845	0	1	0	3	1	4	0	2	11
0900	0	1	0	0	2	0	0	1	4
0915	0	2	0	0	1	2	0	0	5
0930	0	0	0	0	0	1	0	0	1
0945	0	1	0	0	0	0	0	0	1
1000	0	1	0	0	0	0	0	0	1
1015	0	0	0	0	0	0	0	0	0
1030	0	0	0	0	0	0	0	0	0
Total	1	7	0	6	6	8	0	5	33

Pedestrian Movement Across King Edward Terrace (West) – Wednesday 11th June 2003

To establish the extent to which National Library parking is being used by persons visiting or working in the Treasury Building, a survey was taken on Wednesday 11 June to count persons crossing King Edward Terrace and also entering Car Park 2 via the gap in the hedge surrounding the car park. The gap in the hedge is the only way of accessing Car Park 2 and the National Library site without walking around to the front of the Library and entering from Parkes Place.

The survey covered the section of Kind Edward Terrace from Langton Cres to Parkes Place. Only persons passing through the gap in the hedge were counted. Other persons emanating from the bus stops or from the footpaths at either end of the survey area who did not pass through the hedge were not included.



Figure 3 - Diagram showing location of survey across King Edward Tce (West)

During the survey period from 7.30am to 10.15am a total of 28 persons were observed to cross southwards from the treasury building precinct to the National Library via the gap in the hedge, while a further 28 were observed to originate from the hedge and cross northwards to the Treasury building. No crossings were made west of the pedestrian crossing. 22 (39%) of the 56 crossing were made at the crossing while the remainder 34 (61%) were made to the east of the pedestrian crossing.

The peak hour for pedestrian movements was between 8.30am and 9.30am during which time 37 persons 66% crossed King Edward Terrace. Much of the southbound traffic was from persons emanating from bus stops on Langton Cres, who had walked through the treasury building grounds. Much of the northbound foot traffic was directly to the Treasury Building.

	Crossin	g King Edward		Crossing	g King Edward	Terrace	
		(Southbound)			(Northbound)		
Period	West of	Pedestrian	East of	West of	Pedestrian	East of	Total
Ending	Crossing	Crossing	Crossing	Crossing	Crossing	Crossing	
	(Zone A)	(Zone B)	(Zone C)	(Zone A)	(Zone B)	(Zone C)	
0745	0	0	0	0	1	0	1
0800	0	0	3	0	0	2	5
0815	0	0	1	0	2	0	3
0830	0	1	1	0	0	0	2
0845	0	1	7	0	2	1	11
0900	0	0	3	0	2	6	11
0915	0	1	0	0	2	3	6
0930	0	4	1	0	4	0	9
0945	0	0	2	0	0	1	3
1000	0	0	0	0	0	0	0
1015	0	1	2	0	1	1	5
Total	0	8	20	0	14	14	56

Table 15 - King Edward Terrace (West) Pedestrian Survey

Pedestrian Movement across King Edward Terrace (East) from National Gallery Car Park – Wednesday 11th June 2003

The question of use of the National Gallery Car Park (Car Park 10) by persons other than National Gallery commuters or visitors was addressed by a survey on Wednesday 11 June of persons leaving the car park on foot and crossing King Edward Terrace.

Figure 4 - Diagram showing location of survey across King Edward Tce (East)



This survey was conducted between 7.30am and 10.15am and a total of 76 persons were observed. Some 69 (91%) persons left the National Galley Car Park and crossed King Edward Terrace while a total of 7 (9%) persons performed the reverse movement.

The destination of the 69 persons leaving the car park was primarily to the John Gorton building, which attracted 55 of the 69 or 80%. The other 14 persons crossed over to Car Park 11 on the eastern side of Dorothy Tangney Pl and may have been bound for Barton on the other side of Kings Avenue.

The peak hour for foot traffic from the National Gallery was between 9.00am and 10.00am when 59 (78%) left (or entered) the car park and crossed King Edward Terrace.

Period Ending	Car Park 10 to	Car Park 10 to	John Gorton	Car Park 11 to	Total
	John Gorton	Car Park 11	Building to	Car Park 10	
	Building		Car Park 10		
0745	1	0	0	0	1
0800	0	1	0	0	1
0815	0	0	0	0	0
0830	1	0	1	0	2
0845	0	0	0	0	0
0900	4	0	0	0	4
0915	13	3	0	2	18
0930	10	5	0	0	15
0945	10	1	0	2	13
1000	11	2	0	0	13
1015	5	2	1	1	9
Total	55	14	2	5	76

Table 16 - King Edward Terrace (East) Pedestrian Survey

Between 0745 and 0830 6 people walked from the Car Park 11 to the High Court.

Pedestrian Movement across Dorothy Tangney PI – Thursday 24th July 2003



Figure 5 - Diagram showing location of survey across Dorothy Tangney Pl

This table shows that the majority of the pedestrians crossing Dorothy Tangney Pl were heading North West towards the John Gorton building. The peak time for this pedestrian movement was between 0830 and 0845am during which 123 persons crossed from east to west.

Table 17 -]	Dorothy	Tangney	Place	Pedestrian	Survey
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Period Ending	To North West (John Gorton Building)	To South East (Car Park 11)		
0745	1	0		
0800	4	0		
0815	21	2		
0830	52	1		
0845	123	1		
0900	66	13		
0915	16	15		
0930	5	5		
0945	5	9		
1000	9	12		
Total	302	58		

Vehicle Occupancy

Thursday 24th July 2003

The vehicle occupancy survey found that, on the morning of the 24th July 2003, 647 vehicles entered car park 11 and 74 vehicles exited Car Park 11. These totals equate to a net total of 573 vehicles in Car Park 11.

The total number of people in the vehicles entering Car Park 11 was 675 and the total number of people in exiting vehicles was 78 representing a net total of 597 people.

There were no vehicles exiting Car Park 11 before 8.30am and the peak hour for outbound traffic occurred between 8.45am and 9.45am when 64 vehicles exited the car park. It was observed that a significant proportion of the vehicles exiting the car park during the peak hour were circulating traffic looking for an available space.

Over 95% of inbound vehicles contained only one occupant, and the average occupancy for inbound vehicles was 1.04 occupants.

	Inbound to Car Park 11			Outbound from Car Park 11			Total Inbound		Total Outbound			
Period Ending	Vehicles with 1 occupant	Vehicles with 2 occupants	Vehicles with 3 occupants	Vehicles with 4 occupants	Vehicles with 1 occupant	Vehicles with 2 occupants	Vehicles with 3 occupants	Vehicles with 4 occupants	Vehicles	Number of occupants	Vehicles	Number of occupants
0730	0	0	0	0	0	0	0	0	0	0	0	0
0745	6	0	0	0	0	0	0	0	6	6	0	0
0800	33	0	0	0	0	0	0	0	33	33	0	0
0815	80	6	0	0	0	0	0	0	86	92	0	0
0830	139	3	0	0	3	0	0	0	142	145	3	3
0845	227	10	0	0	1	0	0	0	237	247	1	1
0900	108	4	0	0	37	0	0	0	112	116	37	37
0915	10	0	0	0	15	0	0	0	10	10	15	15
0930	4	0	0	0	4	0	0	0	4	4	4	4
0945	8	1	0	1	8	1	1	0	10	14	10	13
1000	6	1	0	0	3	1	0	0	7	8	4	5
Total	621	25	0	1	71	2	1	0	647	675	74	78

Table 18 - Vehicle Occupancy at Car Park 11

Analysis of Car Park 11

Clearly substantial numbers of car parkers in Car Park 11 are destined for Barton as the Kings Avenue pedestrian survey demonstrate. Just how much of Car Park 11 is being used by Parkes commuters and visitors was a question to be answered by the July 24 Surveys.

The total capacity of Car Park 11 is 585 vehicles. The vehicle counts taken at the car park entrance show a net influx of 573 vehicles during the morning period from 7.15am to 10.00am. The car park was essentially full by 9.00am. There was a net influx of 597 people into the car park during the survey period.

In the following table the input and output of persons from Car Park 11 has been amalgamated from all the surveys conducted in this study in order to provide a model of the use of the car park. The pedestrian inputs from all sources total 736 persons and the outflow totals 760 persons. Given that some of the data in this model were collected at different times some discrepancy between input and output can be tolerated.

Source of Input	Number	Source of Output	Number
Net influx from vehicles	597	To Barton across Kings Ave	458
Pedestrians from Across Kings Ave in Barton	42	To John Gorton Building	302
Pedestrians from Kings Ave Bus Stop	25		
Pedestrians from NGA Car Park	14		
Pedestrians from John Gorton Building	58		
Total In	736	Total Out	760

Table 19 - Total Input and Output from Car Park 11

Making the assumptions detailed below we estimate that 65% of the parking present in Car Park 11 at 10.00am is attributable to persons working in or visiting Barton and the remaining 35% is attributable to persons working in or visiting Parkes.

Assumptions:

- Persons (14) from NGA Car Park walk through Car Park 11 and cross Kings Ave Barton and thus can be subtracted from the total foot traffic across Kings Ave originating from Car Park 11.
- Persons (42) crossing Kings Ave away from Barton had originally parked in Car Park 11 and thus can be subtracted from the total foot traffic across Kings Ave originating from Car Park 11. Or that they are through pedestrian traffic from Barton to Parkes.
- Persons (25) from the western bus stop on Kings Ave walk through Car Park 11 and are ٠ destined for the John Gorton Building. Thus these people can be subtracted from the total foot traffic crossing Dorothy Tangney Pl to the John Gorton Building and originating in Car Park 11.
- Persons (58) crossing Dorothy Tangney Pl towards the John Gorton Building originally parked ٠ in Car Park 11 and thus can be subtracted from the total foot traffic across Kings Ave originating from Car Park 11. Or that they are through pedestrian traffic from Parkes to Barton.
- The vehicle occupancy of Barton bound and Parkes bound traffic is the same. This allows us to ٠ calculate the proportion of foot traffic emanating from Car Park 11 and assume that vehicles parking there can be allocated to the two destinations in the same ration as the people in them.

Observations at Buildings

National Library of Australia -

Car Park 1 was observed to contain approximately 40 vehicles at 0730 hours. These vehicles appear to be connected with works at the National Library and many are tradesmen's vans. This car park fills to capacity by approximately 0830.

Car Park 2 which contains approximately 25% short stay parking is being used by persons working in the Treasury Building. A count of persons crossing King Edwards Terrace reveals the extent of this.

Opposite National Science and Technology Centre –

The gravel surface car park (Car Park 4) north of Questacon is being used by persons visiting the National Library and other offices.

Typically by 9.15 there are 25 vehicles parked in the South West corner of this car park. The observed pedestrian traffic from these cars is entirely connected with the National Library.

High Court of Australia -

Car Park 6, which entirely consists of short stay spaces fills up by 0930. The pedestrian traffic associated with this car park appears connected with the John Gorton building. Observation suggests that there is some two-way traffic between these sites prior to 0930 and it is possible that some users are visiting the cafeteria.

The short stay parking on the south side of King Edward Terrace opposite the High Court consistently fills shortly after 0900. Pedestrian traffic associates these vehicle with the John Gorton building.

National Gallery of Australia -

The underground car park at the National Gallery has card restricted access until 1000am although on some mornings the boom gates are opened before this. This car park fills early typically being two-thirds full by 0930. There is no evidence of pedestrian activity associated with this car park beyond the NGA grounds.

The surface car park (Car Park 10) is sometimes chained off and closed to the public until 0950 hours but on other occasions is open to the public from early in the morning. On days when it is accessible it is observed that vehicles associated with the John Gorton building park prior to the gallery opening time of 1000 hours. A pedestrian count was conducted to establish the extent to which this was happening and found 55 people crossing the road.

John Gorton Building -

Car Park 12, immediately south of the John Gorton building is currently operating at less than it's designed capacity because of building activity taking up car parking spaces.

The use of Car Park 11 is divided between workers in the John Gorton building and workers in the Edmund Barton building across Kings Avenue.

Pedestrian counts were conducted on two weekdays to establish the extent of traffic crossing Kings Ave to and from this car park. These surveys reveal that over 500 people parking in Car Park 11 cross Kings Ave and enter the Edmund Barton building.

There is evidence of considerable foot traffic approaching the John Gorton building along the footpath originating at Queen Victoria Terrace, heading North to King George Terrace. Persons using this footpath are parking in Car Park 20 and are walking to the John Gorton building.

Finance and Treasury Buildings -

A survey was conducted in Car Park 14 to establish the extent to which persons were using this car park and then travelling to Civic or other places.

Pedestrian traffic leaving this car park via the Western footpath was monitored and it was established that a small number of persons were parking here and travelling elsewhere by bus or to the Hyatt.

Old Parliament House -

No observations were made of Old Parliament House.

East Block –

The short stay parking area was monitored and no use of this car park by persons outside of East Block was noted.

It is noted that the car park to the North of West Block across Queen Victoria Terrace is currently occupied by building works.

West Block -

No observations were made of West Block.