"SALAMANDER SHORES' PROPOSED REDEVELOPMENT SCHEME SALAMANDER BAY, PORT STEPHENS

Assessment of Traffic, Transport and Parking Implications

June 2010

Reference 08186

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TABLE OF CONTENTS

1.	INTRODUCTION	1
2.	PROPOSED DEVELOPMENT SCHEME	3
	2.1 Site, Context and Current Use 2.2 Proposed Development	
3.	ROAD NETWORK AND TRAFFIC CONDITIONS	5
	3.1 Road Network	5 6
4.	ACCESS AND TRAFFIC	9
5.	PARKING	14
6.	INTERNAL CIRCULATION AND SERVICING	17
7.	PEDESTRIANS, CYCLISTS AND PUBLIC TRANSPORT	18
8.	OTHER ISSUES AND MITIGATION MEASURES	19
9.	CONSULTATION	21
10.	CONCLUSION	22

APPENDIX A RTA TRAFFIC VOLUME DATA
APPENDIX B TRAFFIC SURVEYS RESULTS
APPENDIX C HOTEL TRAFFIC GENERATION
APPENDIX D BUS SERVICES
APPENDIX E SIDRA RESULTS

LIST OF ILLUSTRATIONS

FIGURE 1 LOCATION

FIGURE 2 SITE

FIGURE 3 ROAD NETWORK
FIGURE 4 TRAFFIC CONTROLS

1. Introduction

This report has been prepared for Salamander Shores Hotels Pty Ltd to accompany an Environmental Assessment to the Department of Planning for a proposed mixed use tourist hotel and residential apartment development on the existing All Seasons Hotel site at Salamander Bay, Port Stephens (Figure 1).

Port Stephens and its environs is a popular coastal area which has a growing population base and attracts a wide range of tourists and visitors. The 'Salamander Shores' site is located on the western foreshore of Salamander Bay, which is contained within Port Stephens, and the existing hotel complex has operated on the site for more than 30 years.

The picturesque location of this large site presents an ideal opportunity to provide a complementary mixed development comprising a tourist facility together with residential apartments within the natural landscaped environment.

The Minister for Planning has responded to a PEA Report for the development and has advised the Director General's Requirements which include the following:

3. Traffic and Access

- 3.1 Prepare a traffic impacts study in accordance with Table 2.1 of the RTA's Guide to Traffic Generating Developments which addresses, but is not limited to the following matters
 - The capacity of the road network to safely and efficiently cater for the additional traffic generated
 - Access to and within the site
 - Servicing and parking arrangements
 - Intersection site distances
 - Connectivity to existing developments
 - Impact on public transport (including school bus routes)
 - Provision of access for pedestrians and cyclists to, though and within the site

- Identify suitable mitigation measures, if required to ensure the efficient functioning of the road network.
- 3.2 Protect existing public access to and along the beach and coastal foreshore and provide, where appropriate, new opportunities for controlled public access. Consider access for the disabled, where appropriate.

Consultation Requirements:

- * Port Stephens Council
- * NSW Roads and Traffic Authority.

The proposed redevelopment scheme comprises:

★ Permanent apartments - 44

* Serviced apartments - 34

* Hotel - 84 rooms

- Bar and lounge

- Conference and pre-function

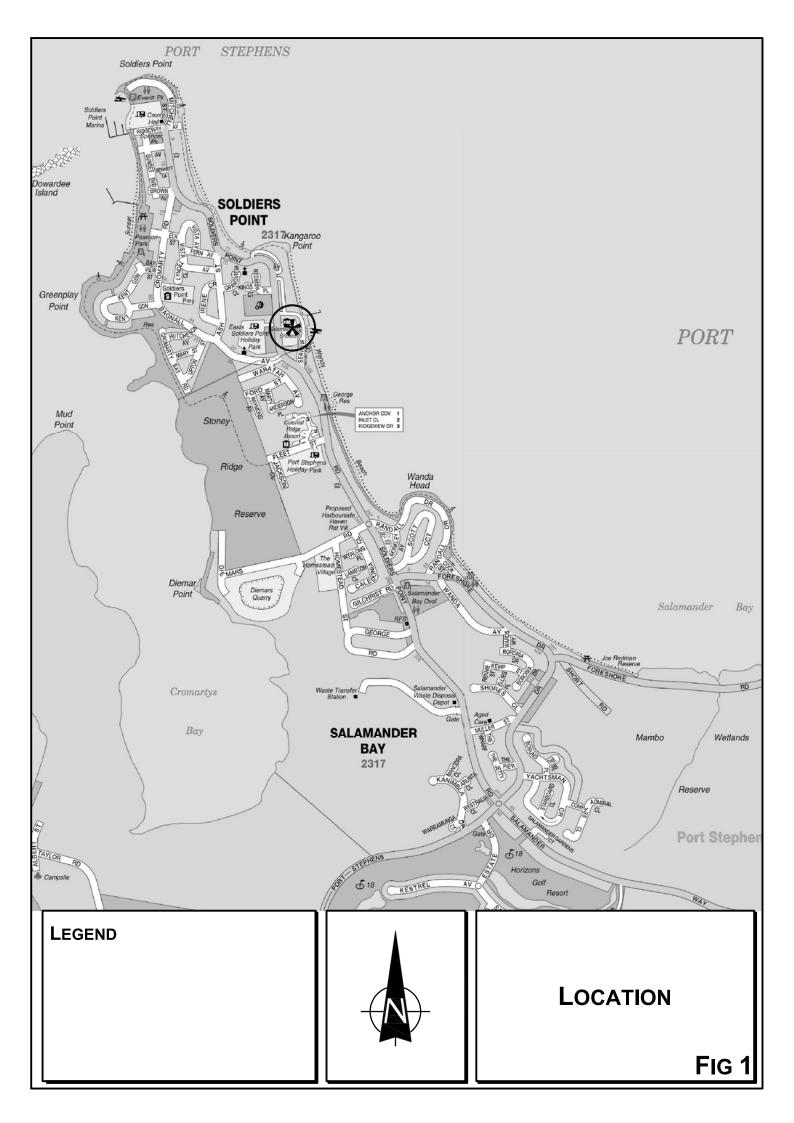
- Bistro

Café/Retail boutique

Gym/games/recreation

The purpose of this report is to:

- * describe the site and the envisaged redevelopment scheme
- * describe the road network serving the site and the prevailing traffic conditions
- * assess the vehicle access arrangements and potential traffic implications
- * assess the adequacy of the proposed parking provision
- * assess the proposed internal circulation and servicing arrangements.



2. Proposed Development Scheme

2.1 SITE, CONTEXT AND CURRENT USE

The site (Figure 2) is Lot 31 of DP 529002 occupying an irregular shaped area of 1.2 ha and the 'existing conditions' are identified on the Google image which is reproduced overleaf. The site is bounded by:

- * Soldiers Point Road to the west
- * open space to the north, east and south
- * residential dwellings further to the north
- * Caravan Park and Bowling Club along the western side of Soldiers Point Road
- * Residential dwellings further to the south.

The existing Salamander Shores development comprises:

* 91 hotel rooms

Bottle Shop 49m²
 Restaurant 330m²
 Bistro 264m²
 Bar/pub 135m²
 Function/conference 311m²

★ Parking 135 spaces

2.2 PROPOSED DEVELOPMENT

It is proposed to demolish the existing building structures and excavate part of the site to provide basement carparking and a level building platform.

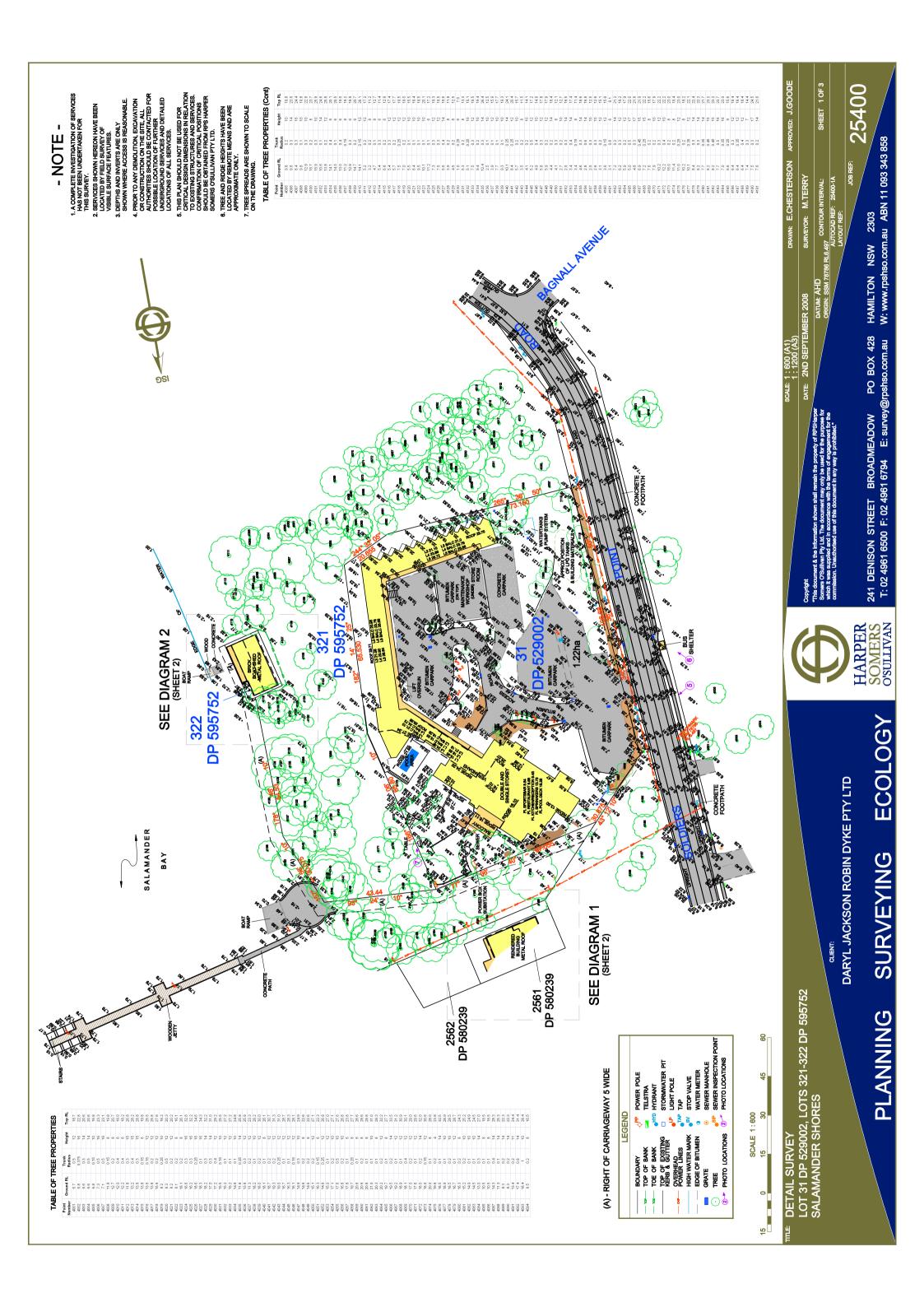


LEGEND



SITE

FIG 2



The proposed redevelopment scheme comprises:

* Residential apartments 5 x one-bedroom

9 x two-bedroom

30 x three-bedroom

Total 44

★ Serviced apartments 34 x two-bedroom (dual key)

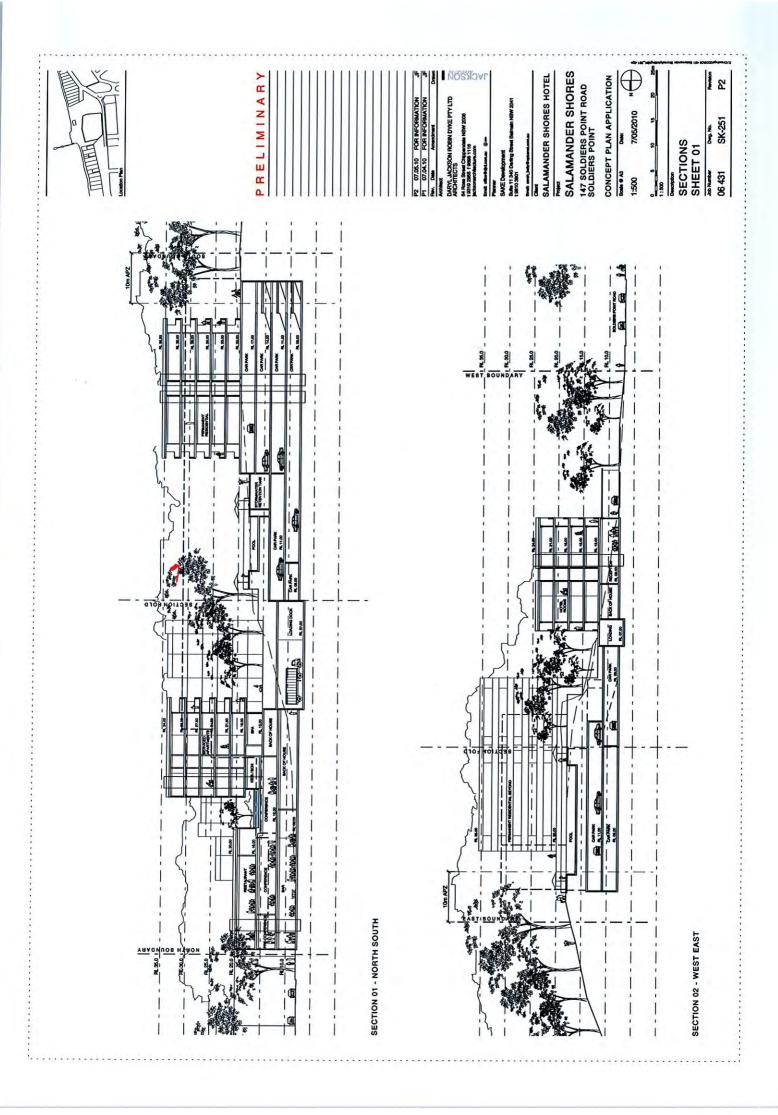
* Hotel 84 rooms

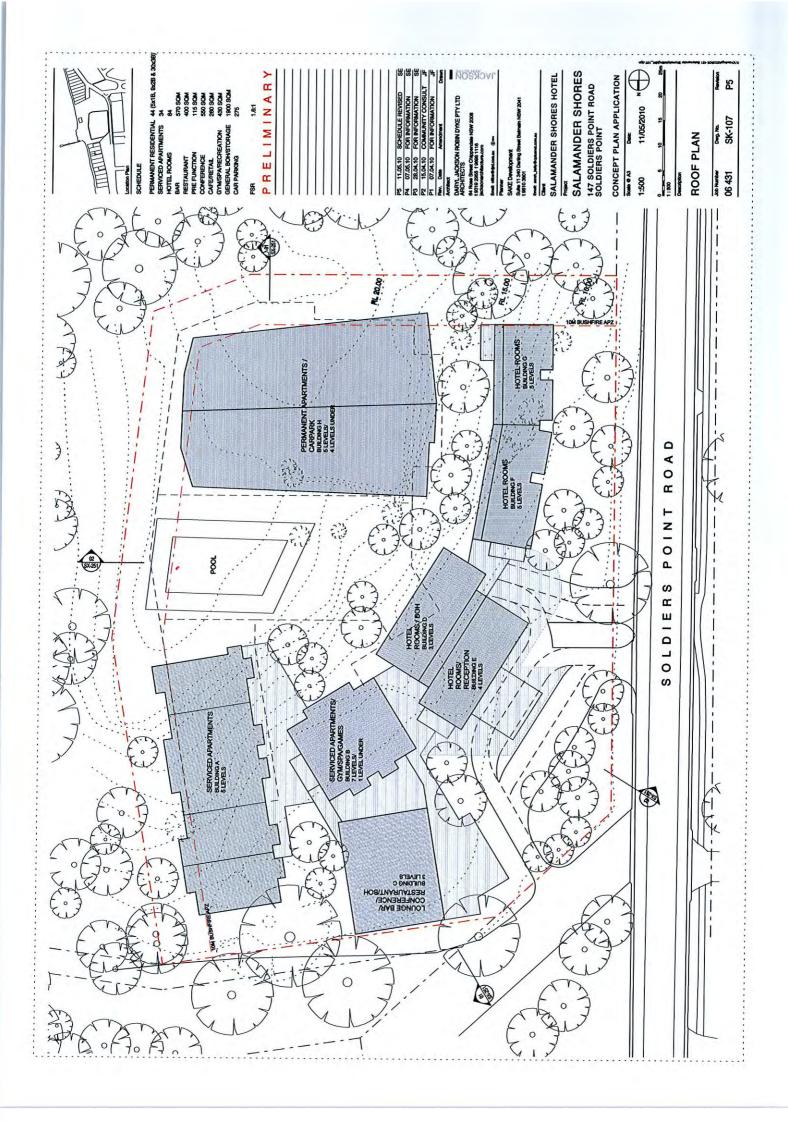
Bar/lounge 570m²
Bistro 400m²
Pre-function 115m²
Conference 550m²
Café/retail 260m²
Gym/games/recreation 430m²

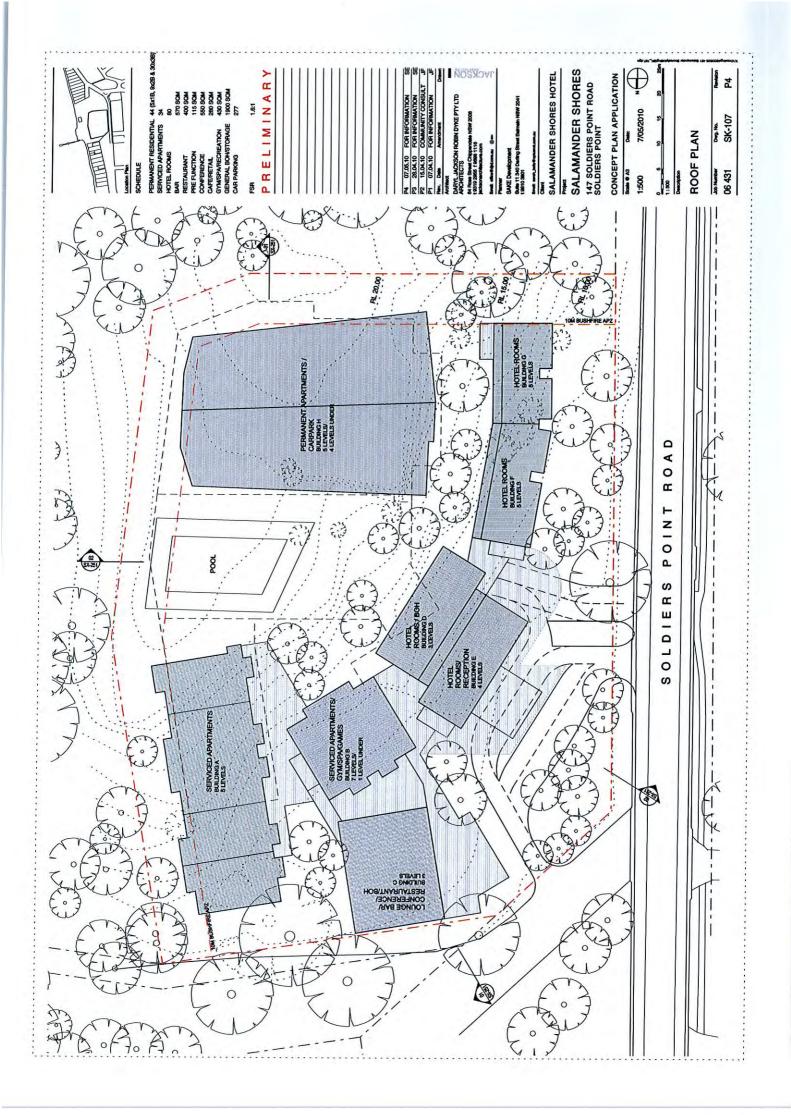
Back of house/store

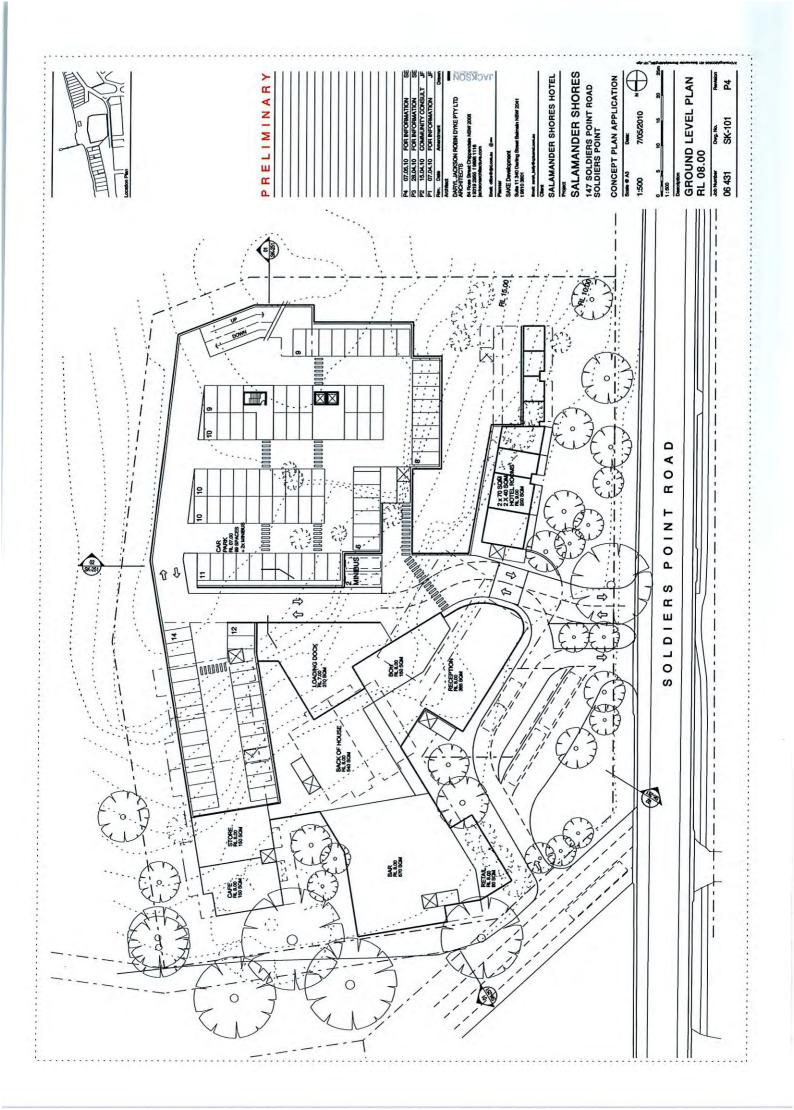
A total of 275 parking spaces will be provided in basement areas with vehicle access comprising separate ingress and egress driveways on Soldiers Point Road and a portecochere ingress on the road reserve to the north of the site.

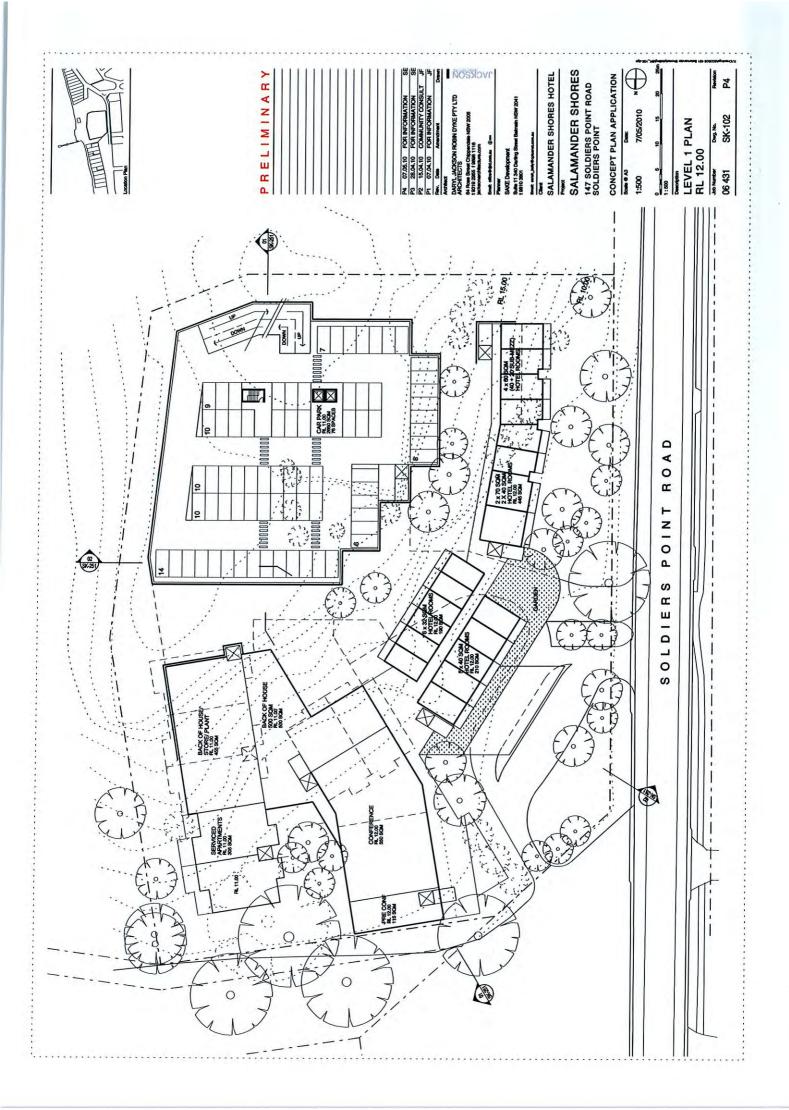
Details of the Concept Plan are provided on the plans prepared by Daryl Jackson and Robin Dyke which accompany the Application and are reproduced in part overleaf.

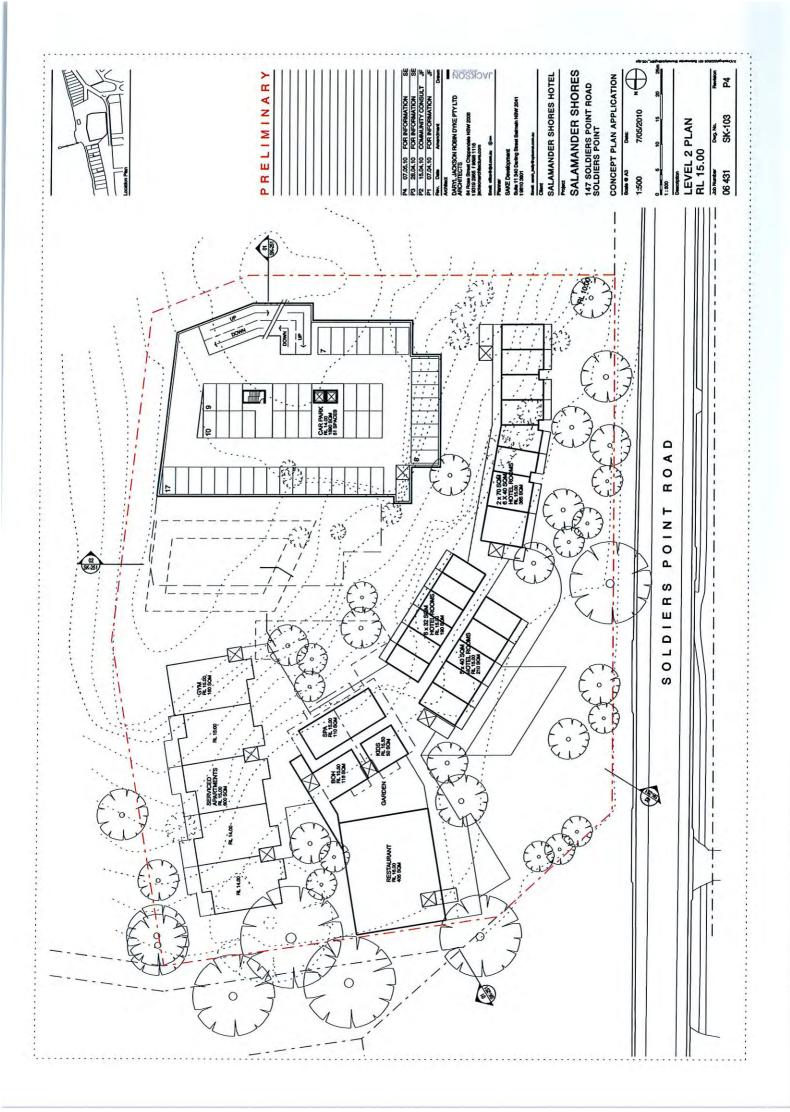


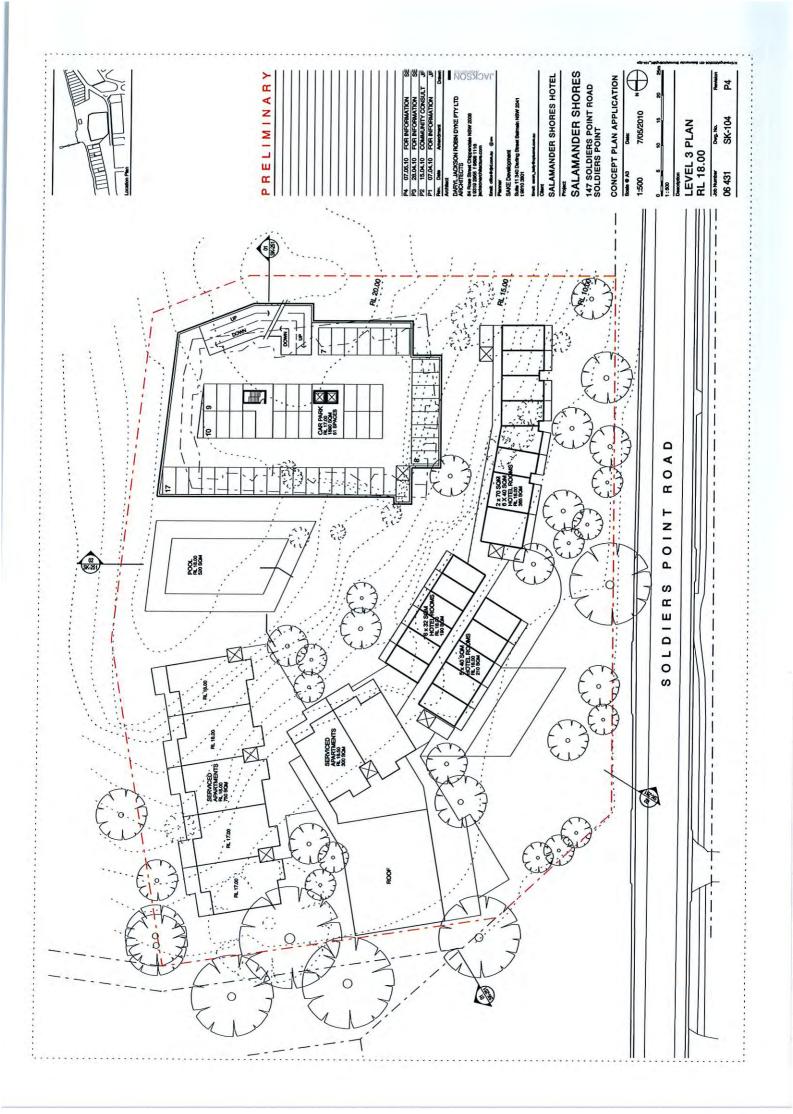












3. EXISTING ROAD NETWORK AND TRAFFIC CONDITIONS

3.1 ROAD NETWORK

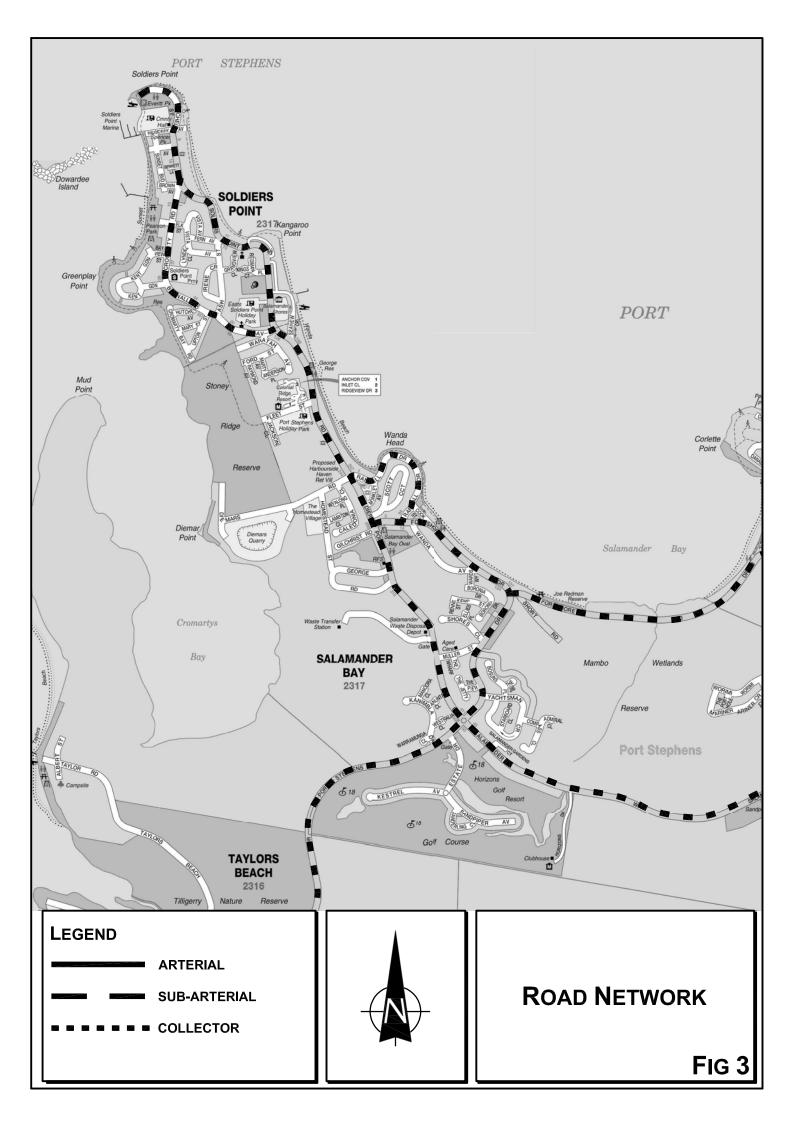
The road network serving the site (Figure 3) comprises:

- Nelson Bay Road a State Road and sub-arterial route providing the principal connection between the southern headland of Port Stephens and the Pacific Highway
- ★ Port Stephens Drive a collector route connecting between Salamander Bay and Nelson Bay Road
- ★ Salamander Road a collector road route connecting between Nelson Bay Road and Soldiers Point
- * Foreshore Drive-Sandy Point Road-Government Road a collector route running along the southern shore
- * Bagnall Avenue-Cromarty Road a minor collector route along the western side of Soldiers Point.

Soldiers Road in the vicinity of the site has a straight and level alignment being some 12 metres wide.

3.2 Traffic Controls

The relatively few traffic controls provided on the road system serving the site (Figure 4) comprise:



- * the roundabouts at the Port Stephens Road/Nelson Bay Drive and Port Stephen Road/Soldiers Point Road/Salamander Way intersections
- * the roundabout at the Soldiers Point Road/Mars Road/Randall Drive intersection
- * the 50 kmph speed restriction on Soldiers Point Road
- * the GIVE WAY control on the side streets intersecting with Soldiers Point Road
- * the centre linemarking along Soldiers Point Road including the barrier line in the section near the Bagnall Avenue intersection
- * the shared (pedestrian/bicycle) pathway running along the western side of Soldiers Point Road.

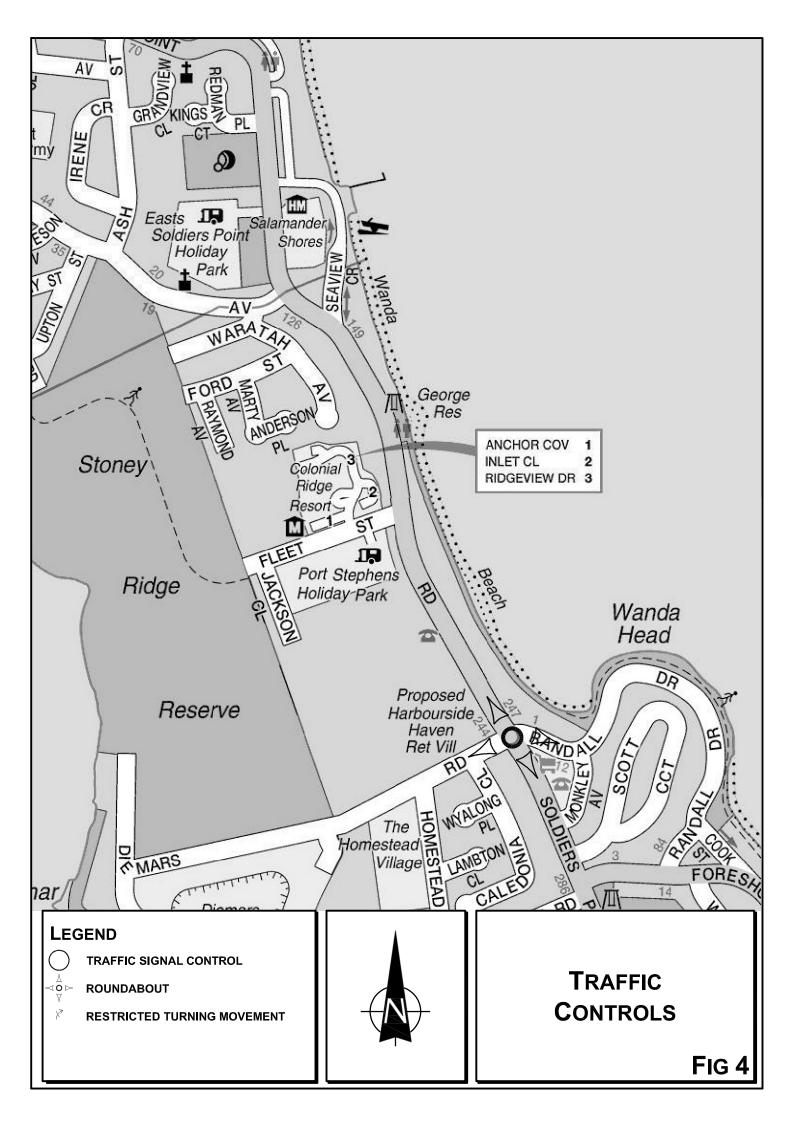
3.3 TRAFFIC CONDITIONS

An indication of traffic conditions in the area is provided by data published by the RTA and surveys undertaken as part of this study. The RTA data is published in terms of Annual Average Daily Traffic (AADT) and volumes recorded at the nearby RTA stations are as follows:

	AADT		
	1998	2001	2004
Nelson Bay Road north of Cabbage Tree Road	14,893	15,401	17,174
Nelson Bay Road east of Gan Gan Road	9,481	7,887	9,481

This data indicates a typical steadily increasing traffic flow while additional traffic flow characteristics are provided by details from the 'permanent' counting station north of Cabbage Tree Road in terms of:

- 7 day / 24 hour directional volumes
- 365 day directional volumes



These details are provided in Appendix A with particular apparent features being:

- * the fairly consistent flows throughout the business hours
- * the heightened volumes during the summer months.

Traffic surveys have recently been undertaken in the vicinity of the site in February 2010 during the Friday morning and afternoon peak and Saturday morning periods. Details of the recorded movement volumes are provided in Appendix B and summarised in the following:

		AM	PM	Sat
Soldiers Point Road	Northbound	94	158	135
	Left-turn	125	110	88
	Southbound	150	117	163
	Right-turn	1	1	4
Bagnall Avenue	Right-turn	167	141	101
	Left-turn	8	10	16
Soldiers Point Road	Northbound	212	364	266
	Right-turn	6	14	8
	Left-turn	12	6	20
	Southbound	328	256	340
	Right-turn	10	14	6
	Left-turn	12	6	16
Randall Drive	Westbound	4	8	2
	Right-turn	22	24	50
	Left-turn	36	30	26
Diemars Road	Eastbound	-	2	-
	Right-turn	50	32	28
	Left-turn	10	14	8

				AM	PM	Sat
Soldiers Point Road	Northbound			198	224	156
		Right-tu	rn	22	76	32
		Left-turn)	148	170	108
		Southbo	ound	230	214	244
		Right-tu	rn	158	92	134
		Left-turn	1	18	28	20
Port Stephens Drive		Eastbou	ınd	46	94	56
		Right-tu	rn	172	198	148
		Left-turn	1	138	146	116
		Westbo	und	96	58	90
		Right-tu	rn	48	8	16
		Left-turn	1	96	58	68
		AΜ		PM	8	Sat
	IN	OUT	IN	OUT	IN	OUT
Hotel Access	8	3	11	12	31	31
Seaview Crescent	3	7	19	19	8	18
Bowling Club Access	26	10	78	47	25	12
Caravan Park Access	8	13	13	5	8	24

3.4 Public Transport

Public transport services in the vicinity of the site are essentially limited to the bus service operated by Port Stephens Coaches which connects between Soldiers Point and Newcastle. This service offers 4 morning and 4 afternoon services in each direction on weekdays and 5 services in each direction on Saturdays, Sundays and Public Holidays as indicated in the timetable details provided in Appendix D.

4. Access and Traffic

Access

The proposed vehicle access provisions will comprise:

- * a combined ingress/egress driveway on Soldiers Point Road for the carpark and service vehicles (in the location of the existing access)
- * an ingress driveway on the road reserve bounding the north of the site for porte-cochere and coach access
- * an egress driveway on Soldiers Point Road for porte-cochere and coach egress.

These accesses will be located on relatively straight and level sections of road where good sight distances are available. The proposed accesses will comply with the design requirements of AS 2890.1 and 2 and will provide for all vehicles requiring to access the site.

Traffic

The proposed redevelopment scheme remains of a similar make up and nature to that of the existing development albeit with some additional floorspace areas and the residential/serviced apartments.

The RTA Guidelines do not contain any criteria in relation to the traffic generation characteristics of tourist hotels, however a study undertaken by the Traffic Authority of NSW for motels reveals a generation rate per room during the weekday morning and afternoon periods of some 0.36 vtph.

Reference to the comprehensive Institute of Transportation Engineers "Trip Generation" publication (2003) reveals criteria for the "Resort Hotel" category which comprises:

- * accommodation rooms
- * restaurants
- * bars
- * retail shops
- * convention/meeting rooms
- recreational facilities.

The average occupancy rate of the hotels surveyed was 82% and details of the traffic generation rates are provided in Appendix C and are summarised in the following:

- Av vtph per room in morning and afternoon on-street peak periods

AM 0.31 (72% IN / 28% OUT) PM 0.42 (43% IN / 57% OUT)

It is apparent that the hotel rooms and the serviced apartments will exhibit a similar generation characteristic. The proposed hotel will have 80 rooms and there will be 34 serviced apartments, and on this basis (ie the criteria provided for 82% occupancy) the weekday morning and afternoon peak traffic generation for 114 accommodation units will be:

AM 36 vtph (26 IN / 10 OUT)
PM 48 vtph (21 IN / 27 OUT)

In regard to the residential apartment element it is apparent that there will be characteristics of:

- retiree occupants
- 'holiday home' occupants
- lease occupants

As such, the traffic generation circumstances of these elements will not reflect the criteria contained in the RTA's Development Guidelines. That criteria is sourced from surveys undertaken in the Sydney Metropolitan Area and accordingly does not reflect the lifestyle, demographics or residential/accommodation nature of dwellings in the Port Stephens area and more specifically that of the proposed development.

The traffic generation of residential apartments is somewhat less than that of single dwelling houses particularly for two-bedroom apartments as demonstrated in the RTA's criteria for medium density housing (0.4 - 0.5 vtph). However, in order to provide some 'sensitivity provision' in the generation rates the following criteria has been adopted in relation to the proposed development scheme:

Peak Traffic Generation

Residential apartments - 0.35 vtph

Application of this criteria to the proposed residential apartment element would indicate the following peak traffic generation:

44 apartments @ 0.35 vtph - 16 vtph

	AM	F	PM
IN	OUT	IN	OUT
4	12	12	4

The other proposed elements of the development will not contribute to additional generated movements in these periods because:

- * they will not generate movements during these periods (ie bar, restaurant)
- * they are very largely ancillary to the accommodation elements (ie function, café, retail).

Thus, the total projected generation of the concept scheme development will be:

	AM		PM		Sat	
	IN	OUT	IN	OUT	IN	OUT
Hotel/Serviced Apartments	26	10	21	27	39*	39*
Residential	4	12	12	4	6	6
Other (service, coaches etc)	4	4	4	4	2	2
Total	34	26	37	35	47	47

^{*} Factored from existing generation

The operational performance of the main access driveway has been assessed using SIDRA and the results are provided in Appendix E and summarised in the following:

	AM	PM	Sat
LOS	Α	Α	Α
DS	0.042	0.058	0.058
AVD	1.8	1.9	2.2

The results indicate a quite satisfactory operational performance with significant spare capacity.

Criteria for Interpreting Results of SIDRA Analysis

1. Level of Service (LOS)

LOS	Traffic Signals and Roundabouts	Give Way and Stop Signs
'A'	Good	Good
'B'	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
'C'	Satisfactory	Satisfactory but accident study required
'D'	Operating near capacity	Near capacity and Accident Study required
'E'	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode	At capacity and requires other control mode
'F'	Unsatisfactory and requires additional capacity	Unsatisfactory and requires other control mode

2. Average Vehicle Delay (AVD)

The AVD provides a measure of the operational performance of an intersection as indicated on the table below which relates AVD to LOS. The AVD's listed in the table should be taken as a guide only as longer delays could be tolerated in some locations (ie inner city conditions) and on some roads (ie minor side street intersecting with a major arterial route).

Level of Service	Average Delay per Vehicle (secs/veh)	Traffic Signals, Roundabouts	Give Way and Stop Signs
Α	Less than 14	Good operation	Good operation
В	15 to 28	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
С	29 to 42	Satisfactory	Satisfactory but accident study required
D	43 to 56	Operating near capacity	Near capacity and accident study required
Е	57 to 70	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode	At capacity and requires other control mode

3. Degree of Saturation (DS)

The DS is another measure of the operational performance of individual intersections.

For intersections controlled by **traffic signals**¹ both queue length and delay increase rapidly as DS approaches 1, and it is usual to attempt to keep DS to less than 0.9. Values of DS in the order of 0.7 generally represent satisfactory intersection operation. When DS exceeds 0.9 queues can be anticipated.

For intersections controlled by a **roundabout or GIVE WAY or STOP signs**, satisfactory intersection operation is indicated by a DS of 0.8 or less.

the values of DS for intersections under traffic signal control are only valid for cycle length of 120 secs

5. Parking

Assessment in relation to the appropriate parking provision for the various elements of development scheme has had regard to Council's DCP and the RTA Development Guidelines.

Ancillary considerations include:

- * the likely 'retiree' nature of residents
- * the likely shared use of the hotel, restaurant/function parking
- * the likely general occupation levels of the hotel rooms and serviced apartments.

In relation to the parking provision for the hotel element the Roads and Traffic Authority's Guide to Traffic Generating Developments² contains the following:

Section 5.5.3 Hotels - Tourist

Definition: A Tourist Hotel is a building or buildings (other than a hotel licensed under the Liquor Act, motel, boarding hour or residential building) substantially used for the accommodation of tourists.

Hotels with a 3, 4 or 5 star rating are generally considered to be tourist hotels and the parking provision recommended for 3 and 4 star hotels is 1 space per 4 bedrooms. Provision should be made for tour coach parking and stacked parking should not be used unless a valet parking service is available.

The guidelines note that 3, 4 and 5 star hotels incorporate operational elements of retail, entertainment, conference and health facilities but do not apply separate additional parking requirement for these elements.

The application of 'compound' parking requirements for each element of the proposed development is clearly not appropriate due to the very significant and distinct 'dual and complementary' characteristics of these elements with:

- * hotel guests being the pre-eminent users of the restaurant, bar and function elements
- * the different peak usage times for elements (eg room occupation, restaurant, conference).

It is also apparent that 100% occupancy would be a rare seasonal event and 65% to 70% would be the normal expected week to week peak occupancy.

Reference to the Institute of Engineers Publication 'Parking Generation' 2003 contains the following assessments:

Landuse	All Suites Hotel	Motel	Business Hotel	Resort Hotel		
Av № rooms	170	200	130	365		
Av Peak Parking Demand (cars parked per room)						
Weekday	0.86	0.90	0.64	NA		
Weekend	0.85	NA	0.66	0.64		

NA = Not accurate or not available

Council's DCP № 2007 specifies the following:

Residential apartments

One and two-bedroom - 1 space
Three-bedroom - 2 spaces

Visitors - 1 per 3 apartments

Tourist facility - 1 space per unit +

1 space per 2 staff

Restaurant - 15 spaces per 100m² GFA

Function - Not stated

Application of this criteria to the envisaged development would indicate the following:

5 x one-bedroom apartments	5 spaces
9 x two-bedroom apartments	9 spaces
30 x three-bedroom apartments	60 spaces
Visitors	15 spaces
Hotel/serviced apartments	118 spaces
Staff (30)	15 spaces
Total	222 spaces
Bistro 400m ²	60 spaces
Total	282 spaces

It is apparent that the provision of this level of parking (ie compound maximums) would be excessive and not in keeping with 'sustainable' principles or actual need given the dual use (restaurant/hotel room/apartment), the travel mode of hotel guest/ serviced apartments involving coaches, shared travel etc, the unlikely event that all 3 bedroom apartments would require 2 space and the normal level of occupancy.

It is proposed to provide a total of 275 parking spaces and this is considered to be an appropriate quantum which would have a 'flexible' component of public access spaces. If there is any concern for potential occasional usual demands needs for high occupancy/conference use could be dealt with by the provision of valet parking services with some stacking in the hotel guest section of the carpark (as per RTA Guidelines). An appropriate component of spaces for disabled drivers would also be incorporated into this proposed provision in accordance with the DCP criteria.

By comparison application of the RTA Development Guideline criteria would suggest:

Hotel rooms	84 @ 1 per 4	21 spaces
Serviced apartments	34 @ 1.2 spaces	41 spaces
Residential apartments	5 x one-bedroom @ 1 space	5 spaces
	9 x two-bedroom @ 1.2 spaces	11 spaces
	30 x three-bedroom @ 1 per 5	51 spaces
	Visitors @ 1 per 5	9 spaces
Restaurant	400m ² @ 15 per 100m ²	60 spaces
	Total	198 spaces

6. INTERNAL CIRCULATION AND SERVICING

Internal Circulation

The internal circulation arrangements will comprise:

- * the porte-cochere area for the hotel
- * the basement carpark area for the hotel, restaurant and function elements
- * the basement carpark area for the serviced apartments
- * the basement carpark area for the residential apartment.

The design of these areas will accord with the requirements of AS 2890.1 and Council's Code and there is no apparent reason why these design standards could not be achieved. The internal circulation arrangements will accommodate all vehicles requiring to access the development elements and will include provisions for disabled drivers.

Servicing

Service vehicle movements for the development will be accommodated in a dedicated separate dock area off the main access driveway. This dock will be suitable for all deliveries and garbage removals etc to enter and depart in a forward direction.

Small service vehicles/service personnel etc) will also be able to park in the visitor parking spaces while separate parking areas will be provided for tour coaches (2 spaces) and mini coaches (2 spaces) adjacent to the porte-cochere.

7. PEDESTRIANS, CYCLISTS AND PUBLIC TRANSPORT

The site and the nature of the development present ideal circumstances for the encouragement and facilitation of walking and cycling for residents, guests, visitors and staff.

There is an existing shared footway along the western side of Soldiers Point Road as well as extensive walking opportunities along the foreshore on both sides of Soldiers Point. The development will have ready access to these facilities as well as circulation within and through the site.

Bicycles will be available for hotel and serviced apartment guests while bicycle parking will be available for all elements comprising:

- a storage area in the basement
- * an external rack
- individual storage for residential apartments.

The adjacent bus stops on Soldiers Point Road will also be within easy walking distance while the provisions for tour coaches and mini-buses will also present an important element of alternative travel mode.

8. OTHER ISSUES AND MITIGATION MEASURES

* Intersection Sight Distances

As can be seen from the Figure 2 Google image there are excellent sight distances available along Soldiers Point Road at the site access point. These distances will comply with the AS 2890.1 criteria.

* Connectivity with other Developments

The existing resort site does not present a circumstance of integrating with existing nearby uses and as such connectivity is not a particularly relevant issue. The elements of connectivity are potentially with:

- the Bowling club opposite
- the foreshore
- the Primary School (for residents)
- the Stoney Ridge Reserve.

All of these elements are easily accessed by walking or cycling while shopping and other trips further afield would be reliant on the bus services, the hotel minibus or private car.

★ Impact on Public Transport including School Bus Routes

The only impact would be the potential for increased patronage.

* Mitigation Measures

There will not be any adverse impacts which necessitate mitigation. However, if increased travel by private motor vehicle is seen to need mitigation then the relevant measures are:

- provision of hotel mini-bus/van
- provision of cyclist's facilities and access to the existing bicycle network

- provision to encourage walking and linkage to the pedestrian network
- provision for tour coach parking
- integrated on-site facilities (accommodation, recreation, restaurant, bar etc).

9. CONSULTATION

During the course of this assessment consultation was undertaken with:

Port Stephens Shire Council

Mr Joe Gleeson (telephone discussion on 3.6.10)

Roads and Traffic Authority

Mr David Young (telephone discussion on 8.6.10)

Advice was received from the officers that:

- * there were no proposed or envisaged works or changes which would impact on the proposed development site
- * there were no apparent difficulties or problems in relation to the existing development
- * the proposed development did not appear to present any new or undue adverse traffic implications.

Accordingly, no formal correspondence was entered into in relation to the proposed redevelopment.

10. CONCLUSION

The proposed redevelopment scheme for Salamander Shores with its new residential elements is significant, however these uses will not engender a high level of traffic generation and the access movements will be spread.

Assessment of the Concept Scheme for development has concluded that:

- * there will not be any unsatisfactory traffic implications
- * the vehicle access and circulation arrangements will be suitable and appropriate
- * the proposed parking provisions will be adequate
- * the proposed arrangements for pedestrians, cyclists and service vehicles will be suitable and appropriate.

APPENDIX A

RTA TRAFFIC VOLUME DATA

HOURLY TRAFFIC VOLUMES

for Week commencing MON 16/08/04

Station No. 05.191.N

NELSON BAY RD, MR108

WILLIAMTOWN-0.2KM N MR302, TOMAGO RD

HOUR	MON	TUE	WED	THE S	ED.T	0.0.00	graz	W	EEKDAY	S	WEEKEN	D (+HO	LIDAYS)	1	WHOLE W	IEEK
comm.			18/08°	THU 19/08	FRI 20/08	SAT 21/08	SUN 22/08	TOTAL	MEAN	8	TOTAL	MEAN	*	TOTAL	MEAN	·
												ricana				
0	21	38	32	38	53	78	93	182	36	0.40	171	86	1.27	353	50	0.60
1	16	17	23	20	30	43	54	106	21	0.23	97	49	0.72	203	29	0.34
2	8	26	12	18	20	37	44	84	17	0.18	81	41	0.60	165	24	0.28
3	13	18	12	17	24	28	29	84	17	0.18	57	29	0.42	141	20	0.24
4	40	3 5	30	33	49	37	44	187	37	0.41	81	41	0.60	268	38	0.45
5	158	136	131	126	146	105	90	697	139	1.53	195	98	1.45	892	127	1,51
6	483	538	489	511	504	163	83	2525	505	5.54	246	123	1.83	2771	396	4.69
7	759	835	805	820	827	223	150	4046	809	8.88	373	187	2.77	4419	631	7.48
8	504	520	476	507	500	363	266	2507	501	5.50	629	315	4.67	3136	448	5.31
9	487	472	457	479	456	527	345	2351	470	5.16	872	436	6.47	3223	460	5.46
10	373	399	352	400	425	562	448	1949	390	4.28	1010	505	7.49	2959	423	5.01
11	419	458	396	415		548	707	2144	429	4.70	1255	628	9.31	3399	486	5.76
12	462	445	460	434	496	733	530	2297	459	5.04	1263	632	9.37	3560	509	6.03
13	505	518	537	547	594	637	472	2701	540	5.93	1109	555	8.23	3810	544	6.45
14	508	504	520	581	635	604	438	2748	550	6.03	1042	521	7,73	3790	541	6.42
15	803	845	749	916	944	576	449	4257	851	9.34	1025	513	7.61	528 2	755	8.94
16	871	924	916	934	968	560	439	4613	923	10.12	999	500	7.41	5612	802	9.50
17	904	1000	929	963	985	471	524	4781	956	10.49	995	498	7.38	5776	825	9.78
18	500	464	496	514	598	334	276	2572	514	5.64	610	305	4.53	3182	455	5.39
19	237	236	261	290	330	184	191	1354	271	2.97	375	188	2.78	1729	247	2.93
20	211	206	215	248	270	164	193	1150	230	2.52	357	179	2.65	1507	215	2.55
21	160	188	177	226	261	156	97	1012	202	2.22	253	127	1.88	1265	181	2.14
22	102	111	113	130	277	145	61	733	147	1.61	206	103	1.53	939	134	1.59
23	63	81	87	107	167	125	50	505	101	1.11	175	88	1.30	680	97	1.15
DAY																
TOT	8607	9014	8675	9274	10015	7403	6073	45585	9117	100.00	13476	6738	100.00	59061	8437	100.00
MAX	904	1000	929	963	985	733	707	AWT =	9117		AWE =	6738		ADT =	8437	

HOURLY TRAFFIC VOLUMES

for Week commencing MON 16/08/04

Station No. 05.191.S

NELSON BAY RD, MR108

WILLIAMTOWN-0.2KM N MR302,TOMAGO RD

HOUR	MON	TUE	WED	THU	FRI	SAT	SUN	W	EEKDAY	S	WEEKEN	D (+HO	LIDAYS)		WHOLE !	VEEK
COUM.			18/08					TOTAL	MEAN	*	TOTAL	MEAN	*	TOTAL	MEAN	8
0	7	27	30	16	36	24	42	116	23	0.27	66	33	0.51	182	26	0.32
1	11	21	19	12	14	19	18	77	15	0.18	37	19	0.28	114	16	0.20
2	18	17	16	11	22	9	19	84	17	0.19	28	14	0.22	112	16	0.20
3	18	20	21	21	30	17	17	110	22	0.25	34	17	0.26	144	21	0.26
4	56	45	51	54	54	35	18	260	52	0.60	53	27	0.41	313	45	0.56
5	279	276	289	274	285	116	75	1403	281	3.23	191	96	1.47	1594	228	2.83
6	636	671	625	637	616	200	123	3185	637	7.34	323	162	2.49	3508	501	6.22
7	937	953	954	937	855	234	130	4636	927	10.68	364	182	2.80	5000	714	8,87
8	921	947	886	892	848	421	320	4494	899	10.36	741	371	5.71	5235	748	9.28
9	601	596	620	618	599	502	431	3034	607	6.99	933	467	7.18	3967	567	7,04
10	576	549	552	615	634	691	488	2926	585	6.74	1179	59 0	9.08	4105	586	7.28
11	451	427	418	400	512	496	570	2208	442	5.09	1066	533	8.21	3274	468	5.81
12	435	391	384	431	511	467	610	2152	430	4.96	1077	539	8.29	3229	461	5.73
13	447	533	460	512	669	565	548	2621	524	6.04	1113	557	8,57	3734	533	6.62
14	509	480	466	460	822	468	656	2737	547	6.31	1124	562	8.65	3861	552	6.85
15	526	564	468	569	687	476	642	2814	563	6.48	1118	559		3932	562	6.97
16	773	832	794	795	544	462	662	3738	748	8.61	1124	562		4862	695	8.62
17	589	581	630	569	539	445	404	2908	582	6.70	849	425	6.54	3757	537	6.66
18	239	270	216	306	393	271	264	1424	285	3.28	535	268	4.12	1959	280	3.47
19	123	149	127	151	141	149	148	691	138	1.59	297	149		988	141	1.75
20	80	101	111	110	181	106	134	583	117	1.34	240	120		823	118	1,46
21	141	117	119	121	147	135	118	645	129	1.49	253	127	1.95	898	128	1.59
22	52	41	64	92	80	94	50	329	66	0.76	144	72	1.11	473	68	0.84
23	36	46	49	5 5	35	82	17	221	44	0.51	99	50	0.76	320	46	0.57
			-		-											
DAY																
TOT	8461	8654	8369	8658	9254	6484	6504	43396	8679	100.00	12988	6494	100.00	56384	8055	100.00
MAX	937	953	954	937	855	691	662	AWT =	8679		AWE =	6494		ADT =	8055	

NELSON BAY RD, MR108

WILLIAMTOWN-0.2KM N MR302, TOMAGO RD

Station No. 05.191.N

1 29/12/03 7748 8253 9099 6405p 7886 8072 6609 54172 1.70 2 5/01/04 9538 8464 9545 9346 9391 10887 6895 63968 2.01 3 12/01/04 9303 8952 9407 9332 9575 7536 6579 60371 1.70 4 11/01/04 9526 9323 10788 9773 10385 10857 6637 6637 66029 2.07 5 26/01/04 5791p 3860 9071 9071 14882 7798 6741 62520 1.56 6 2/02/04 9053 9052 9079 9399 11612 7802 6455 65426 1.95 6 2/02/04 9953 9052 9079 9399 11612 7802 6455 65426 2.07 8 16/02/04 9953 9183 9580 9792 10859 8044 8458 65845 2.07 8 16/02/04 9555 9419 9451 10212 11859 8044 8458 65845 2.07 8 16/02/04 9557 9014 8333 9200 10552 7398 8930 62534 1.86 10 1/03/04 8907 9161 9374 9365 10003 6577 5587 5934 1.86 11 8/03/04 9901 10106 9276 9518 10033 6577 5587 5934 1.96 12 15/03/04 9011 8879 9362 9141 10552 7389 8930 6657 5587 5394 1.96 12 15/03/04 9011 8879 9362 9141 10551 7245 5561 61866 1.94 13 22/03/04 9013 8744 9193 9385 11400 7285 6469 61265 1.92 14 22/03/04 9033 9277 9875 11825 6669 6609 6161 55002 1.91 15 5/04/04 50529 8741 9288 9470 9896 6609 6161 55002 1.91 16 11/03/04 56529 8741 9288 9470 9896 6609 6161 55002 1.91 17 13/04/04 56529 9171 9321 9344 10131 1452 5611 5602 1.92 18 12/05/04 8862 8902 8947 9106 9452 10078 1293 5794 6629 6002 61218 1.92 19 3/05/04 8872 9175 9106 9462 10078 7203 5781 5867 1.98 17 13/05/04 8892 8902 8947 9106 9452 10078 1203 5791 5880 1.93 11 17/05/04 8898 8866 8991 9361 9991 7221 5791 5880 1.85 12 1/05/04 8898 8866 8991 9361 9992 7021 5791 5880 1.85 13 1/05/04 8898 8968 8866 8991 9361 9992 7021 5791 5880 6893 1.80 13 1/05/04 8898 937 9421 9067 9075 5800 6033 1.89 13 1/05/04 8898 8968 8866 8991 9361 9992 7003 5888 61033 7057 5880 6139 5892 1.93 14 1/05/04 8008 8866 8991 9361 9992 7070 5880 6033 1.89 13 1/05/04 8998 9313 9902 9915 10037 707 5887 5995 1.85 13 1/05/04 8998 9368 9861 9375 9868 10033 7365 6476 6229 60022 1.99 13 1/05/04 8998 9369 8861 9373 9401 1015 7403 6073 5995 1896 1.99 13 1/05/04 8998 9313 9999 10105 7403 5898 5833 1.89 13 1/05/04 8998 9398 9313 9400 9400 9400 9400 9400 9400 9400 940		-				n mk302,	TOMAGO RE)	Stati	on No. 05	.191.N
2 2 5/01/04 9559 8446 9545 1446 9391 10987 6609 54172 1.70 3 12/01/04 9330 8952 9407 9392 9575 7536 6579 60371 1.90 3 12/01/04 9266 9323 10788 9773 10385 10857 6637 66029 2.07 5 26/01/04 5791p 8860 9011 9407 14882 7798 6741 62520 1.96 6 2/02/04 9053 9026 9079 9399 11612 7802 6455 62426 1.96 8 16/02/04 9559 9183 9500 9792 10859 8084 9485 65845 2.07 7 9/02/04 9959 9183 9500 9722 10859 8084 9485 65845 2.07 8 16/02/04 9555 9439 9451 10212 11859 7384 6169 63069 1.98 9 22/02/04 9357 9014 8383 9200 10552 7398 8390 62534 1.96 10 1/03/04 9409 10106 9276 9518 10031 7625 7398 8390 62534 1.96 11 8/03/04 9409 10106 9276 9518 10031 7625 591 61866 1.94 12 15/03/04 9018 1879 9362 9145 10458 7343 5548 59746 1.88 13 22/03/04 9966 10032 9412 10076 10187 7184 5824 62561 1.97 14 29/03/04 9066 10032 9412 10076 10187 7184 5824 62581 1.97 15 5/04/04 9439 93 971 9875 11825 76689 6968 6602 61218 1.92 15 5/04/04 9409 9506 10032 9412 10076 10187 7184 5824 62581 1.97 16 12/04/04 5657p 8741 9258 9470 9896 6909 6161 5602 61218 1.92 17 19/04/04 9409 9509 9502 9652 10653 7896 6909 6161 5000 1.76 18 26/04/04 5422p 9171 9321 9344 10131 7452 5611 5662 1.92 19 3/05/04 8752 9040 9189 9450 9985 7324 6629 60292 1.86 18 26/04/04 6800 8866 8866 8931 9361 9990 7217 527 58932 1.85 19 3/05/04 8752 9040 9189 9450 9985 7324 6629 60292 1.86 19 3/05/04 8872 9175 9166 9462 10078 7203 5781 59677 1.97 27 28/05/04 8930 9377 9124 9568 10153 7165 677 5880 1.91 27 28/05/04 870 8872 9179 9318 9641 10179 7630 6462 6179 60771 1.73 27 28/05/04 8938 9379 9365 9428 10627 6699 6199 6093 1.89 27 1/05/04 8939 9377 9421 9568 10153 7165 679 5004 5003 1.89 27 1/05/04 8939 9375 9428 10662 7699 5300 6033 1.89 27 1/05/04 8939 9375 9428 10662 7699 5300 6033 1.89 27 1/05/04 8938 9379 9365 9428 10662 7699 5300 6033 1.89 28 1/05/04 8938 9379 9368 9479 9399 6858 4240 5858 1.91 27 28/05/04 8938 9379 9368 9479 9399 6858 6404 5357 1.73 28 1/05/04 8939 9375 9428 10662 7699 5300 6033 1.89 29 12/07/04 9319 9363 9469 9470 9999 6858 6409 9399 6859 1.89 21 11/10/04 9306 9409 9409 9409 9409 9409	Wee	k Beginning	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Tota1	
2 \$\forall_{0}\$ \text{9301} \text{9518} \text{846} \text{9545} \text{940} \text{9391} \text{10987} \text{6395} \text{6395} \text{6395} \text{6395} \text{6391} \text{1.2} \text{11} \\ \text{11} \text{19} \text{10} \text{4} \text{92} \text{930} \text{852} \text{930} \text{951} \text{930} \text{73} \text{10385} \text{10357} \text{6537} \text{6637} \text{6637} \text{602} \text{2.00} \\ \text{6} \text{2} \text{2} \text{04} \text{9053} \text{9053} \text{902} \text{9079} \text{9399} \text{11617} \text{7802} \text{6455} \text{6245} \text{6245} \text{6245} \text{6245} \text{6245} \text{6245} \text{6245} \text{6245} \text{6245} \text{6246} \text{63645} \text{6246} \text{6266} \text{6366} \te				8253	9099	6405p	7986	8072	6609	5/172	1 705
3 12/01/04 8930 8952 9407 9392 9575 7536 6579 6037 1.99 4 19/01/04 9266 9323 10788 9773 10385 10857 6637 66029 2.07 5 26/01/04 5791p 8860 9041 9407 14882 7798 6731 66229 2.07 6 2/02/04 9053 9266 9079 9399 11612 7802 6455 62426 1.96 6 2/02/04 9559 9183 9580 9722 10859 8084 4878 65845 2.07 7 9/02/04 99559 9183 9580 9722 10859 8084 4878 65845 2.07 8 16/02/04 8555 9439 9451 10212 11895 7384 6169 63069 1.98 8 16/02/04 8957 9014 8933 9220 10552 7398 8930 62534 1.96 9 23/02/04 9057 9014 8933 9220 10552 7398 8930 62534 1.96 11 8/03/04 9409 10106 9376 9318 10351 7245 5961 61866 1.94 11 8/03/04 9409 10106 9376 9318 10351 7245 5961 61866 1.94 12 15/03/04 8907 9316 8379 9362 9145 10458 7343 5548 59746 1.88 14 29/03/04 9066 10032 9412 10876 10387 7348 5824 62581 1.97 15 5/04/04 9066 10032 9412 10876 10387 7348 5824 62581 1.37 16 12/04/04 5657p 8741 9258 9470 8996 6809 6602 61218 1.32 17 19/04/04 912 9198 9502 9625 10636 7896 6809 6161 5602 1.77 18 26/04/04 5422p 9171 9321 9344 10131 7452 5611 5616 621 1.94 18 26/04/04 8765 9940 9189 9450 9988 7324 6629 6028 1.76 19 3/05/04 8672 9171 9321 9344 10131 7452 5611 56165 1.77 19 3/05/04 8672 9173 918 9450 9988 7324 6629 6028 1.76 19 3/05/04 8672 9173 918 9450 9988 7324 6629 6028 1.76 19 3/05/04 8686 8866 8868 8869 91 9361 9990 7217 5827 58932 1.85 24 7/06/04 8702 9933 9365 9428 10642 7689 6139 6093 1.83 25 14/06/04 8938 9179 9318 9461 1078 7530 6496 6073 5880 1.83 27 24/05/04 8938 9179 9318 9641 1078 7530 6496 6033 1.830 28 15/07/04 8038 9179 9318 9641 1078 7530 6496 6133 6033 1.830 29 12/07/04 8038 9179 9318 9461 1078 7530 6466 6133 1.927 27 28/06/04 8938 9179 9318 9641 1078 7530 6496 6033 1.830 31 19/07/04 8191 8472 9064 9179 9375 8600 6033 1.830 31 19/07/04 8191 8472 9064 9179 9189 9190 6958 7440 5858 5898 1.843 31 10/05/04 8938 9179 9318 9641 1078 7530 6306 647 65171 1.737 27 28/06/04 8938 9179 9318 9641 1078 7530 6506 6477 6571 1.737 28 15/07/04 8034 9007 9054 9059 9075 10132 10155 7403 6073 59061 1.859 31 11/07/04 9019 9059 9075 10132 10090 11293 7500 6304 6303 1.830 31 10/0				8446	9545	9146					
4 19/01/04 9266 9323 10788 9773 10385 10857 6637 66039 2.07 5 26/01/04 57919 8860 9041 9407 14882 7798 6741 62520 1.96 6 2/02/04 9053 9026 9079 9399 11612 7802 6455 62456 1.96 6 12/02/04 9053 9026 9079 9399 11612 7802 6455 62456 1.96 8 16/02/04 8855 9439 9451 10212 11859 7384 6169 63069 1.98 9 1830 9580 9722 10859 8084 8458 65845 2.07 8 16/02/04 9957 9014 8383 9200 10552 7398 8930 62534 1.96 10 1/03/04 9907 9161 9374 9665 10003 6657 5507 59384 1.86 11 8/03/04 9409 10106 9276 9518 10331 7245 5961 61866 1.94 11 8/03/04 9409 10108 9276 9518 10311 7245 5961 61866 1.94 11 22/03/04 9093 8744 9193 9385 11480 7285 6469 61265 1.92 11 22/03/04 9033 9277 9875 11825 76489 6968 6602 61218 1.92 15 5/04/04 9023 9277 9875 11825 76489 6968 6602 61218 1.92 15 11 19/04/04 56579 8741 9258 9470 9886 6909 6161 56092 1.76 16 12/04/04 56579 8741 9258 9470 9886 6909 6161 56092 1.76 17 19/04/04 9122 9198 9502 9655 10636 7896 5802 61861 1.94 18 26/04/04 54229 9171 9321 9344 10131 7452 5611 56452 1.77 19 3/05/04 8672 9175 9106 9462 10078 7203 5781 59677 1.87 19 3/05/04 8672 9175 9106 9462 10078 7203 5781 59677 1.87 21 17/05/04 8660 8866 8991 9361 9990 7217 5827 58932 1.85 21 17/05/04 8660 8866 8991 9361 9990 7217 5827 58932 1.85 21 17/05/04 8660 8866 8991 9361 9990 7217 5827 58932 1.85 21 14/06/04 54519 8921 9042 9149 9756 6805 6047 5017 5880 1.91 22 24/05/04 8990 9277 9421 9568 10153 7165 6197 60771 1.91 23 31/05/04 8990 9277 9421 9568 10153 7165 6197 60771 1.91 26 21/06/04 8990 9277 9421 9568 10153 7165 6197 60771 1.91 27 28/06/04 8990 9379 9318 9641 10178 7630 6346 61233 1.92 27 28/06/04 8990 9377 9318 9641 10178 7630 6346 61233 1.92 28 5/07/04 9012 9307 9523 9609 9099 6984 4240 58588 1.81 30 19/07/04 9014 9019 9309 9318 9641 10078 7630 6346 61233 1.92 31 12/07/04 9014 9019 9309 9309 6984 4240 58588 1.81 31 12/07/04 9014 9019 9309 9309 6984 4240 58588 1.81 31 12/07/04 9014 9019 9309 9309 6984 4240 5858 1.81 31 12/07/04 9014 9019 9309 9309 9309 6984 4240 9309 9309 6984 4240 9309 9309 6984 4240 9309 9309 6984 4240 9309 9309 6984 4240 930				8952	9407	9392					
5 26/01/04 5791p 8860 9041 9407 14882 7798 6741 62520 1.96 6 2/02/04 9055 9026 9079 9039 1161 7802 6455 62426 1.96 7 9/02/04 9057 9014 8363 9200 10552 7398 8930 62534 1.96 9 23/02/04 9057 9014 8363 9200 10552 7398 8930 62534 1.96 10 1/03/04 9007 9161 9374 9665 10003 6657 5597 59334 1.86 11 8/03/04 9409 10106 9276 9318 10351 7245 5961 61666 1.94 12 15/03/04 9011 8879 9362 9145 10458 7343 5548 59746 1.88 13 22/03/04 9066 10032 9412 10876 10187 7184 5824 62521 1.97 14 29/03/04 9066 10032 9412 10876 10187 7184 5824 62521 1.97 15 5/04/04 9032 2277 9875 11825 7648p 6868 6602 61265 1.92 16 12/04/04 5657p 8141 9258 9470 9896 6809 6161 56092 1.76 17 19/04/04 5622p 9171 9321 9344 10131 7452 5611 56552 1.77 18 26/04/04 8765 9040 9189 9450 9885 7324 6629 6022 1.97 19 3/05/04 8872 9175 9169 9462 10078 7203 7581 5967 1.87 20 10/03/04 8872 9917 9916 9462 10078 7203 7581 5967 1.87 21 11/05/04 8634 9037 9134 9440 9921 7021 5791 58973 1.85 22 24/05/04 8692 8992 8947 9166 9745 7171 6017 58930 1.85 23 31/05/04 8692 8990 8947 9166 9745 7171 6017 58930 1.85 24 7/06/04 8702 8993 9355 9488 10612 7689 6139 60558 1.94 25 14/06/04 8702 8993 9355 9488 10612 7689 6139 60558 1.84 26 21/06/04 8702 8993 9317 9318 9460 9755 6805 6074 5171 7.7 27 28/06/04 8898 9277 9318 9644 10178 7630 6366 6133 1.9 28 5/07/04 8068 8660 8866 8866 8919 931 9909 9909 9909 9584 410 917 6307 6007 1.97 27 28/06/04 8893 9379 9318 9409 9755 5800 60033 1.89 28 27/07/04 9019 9019 9020 9753 9867 7095 5800 60033 1.89 29 12/07/04 9019 9019 9020 9753 9867 7095			9266	9323	10788	8773					
6 2/02/04 9953 9026 9079 0399 11612 7802 6435 6246 1.96 7 9/02/04 9959 9183 9580 9722 10839 8084 8458 65845 2.07 8 16/02/04 8555 9439 9451 10212 11859 7384 6169 63069 1.98 9 23/02/04 9057 9014 8333 9200 10552 7398 8930 62534 1.96 10 1/03/04 9907 9161 9374 9665 10003 6657 5567 59334 1.66 11 87/03/04 9919 10016 9276 9518 10351 7245 5961 61866 1.94 12 15/03/04 9019 8879 9362 9145 10035 7345 5961 61866 1.94 13 22/03/04 9016 8799 9744 9193 9385 11480 7285 6469 61255 1.32 14 29/03/04 9066 10032 9412 10876 10187 7184 5824 62581 1.97 15 5/04/04 9023 9277 9875 11825 76689 6968 6002 6128 1.92 15 15/04/04 56879 8741 9258 9470 9896 6909 6161 56092 1.76 16 12/04/04 56879 8741 9258 9470 9896 6909 6161 56092 1.76 17 19/04/04 9122 9198 9502 9625 10636 7896 5882 61661 1.94 18 26/04/04 561229 9171 9321 9344 10131 7452 5611 56452 1.77 19 3/05/04 8660 8866 8991 9361 9409 921 7021 5791 56022 1.76 10 10/05/04 8660 8866 8991 9361 9990 7217 527 58932 1.85 12 17/05/04 8680 8866 8991 9361 9990 7217 527 58932 1.85 13 31/05/04 8592 8902 9447 9106 9452 10078 7203 5781 59677 1.878 24 7/06/04 8702 8993 93565 9428 10642 7689 6139 6039 6033 1.850 24 7/06/04 8702 8933 93565 9428 10642 7689 6139 6039 6033 1.850 24 7/06/04 8938 9179 9316 9409 921 7021 5791 58978 1.852 25 24/05/04 8938 9179 9318 9644 10178 7630 6346 6123 3.92 27 28/05/04 8938 9179 9318 9644 10178 7630 6346 6123 3.92 28 12/07/04 9012 9307 9523 9609 9909 6988 424 58586 1.91 29 12/07/04 9012 9307 9523 9609 9909 6986 740 55171 1.737 27 28/06/04 8808 896 8961 9323 9409 970 7057 5867 5965 1.837 28 12/07/04 9012 9307 9523 9609 9909 6986 6097 57451 1.808 28 12/07/04 9012 9307 9523 9609 9909 6986 6097 57451 1.808 29 12/07/04 9012 9307 9523 9609 9909 6986 6097 57451 1.808 20 12/07/04 9012 9307 9523 9609 9909 6986 6097 57451 1.808 21 12/07/04 9012 9307 9523 9609 9909 6986 6097 57451 1.808 21 12/07/04 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014 9015 9014			5791p	8860	9041						
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16 12/04/04 5657p 8741 9258 9470 9896 6609 6161 56092 1.767 17 19/04/04 9122 9198 9502 9625 10636 7896 5882 61861 1.947 18 26/04/04 5422p 9171 9321 9344 10131 7452 5611 56452 1.777 19 3/05/04 8872 9175 9106 9462 10078 7203 5781 59677 1.878 20 10/05/04 8634 9037 9134 9440 9921 7021 5791 58978 1.856 21 17/05/04 8634 9037 9134 9440 9921 7021 5791 58978 1.856 22 24/05/04 8680 8866 8891 9361 9990 7217 5827 58932 1.855 23 31/05/04 8592 8902 8947 9106 9745 7171 6017 58460 1.841 24 7/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 25 14/06/04 8490 9277 9421 9568 10642 7689 6139 60958 1.919 26 21/06/04 8990 9277 9421 9568 10153 7165 6197 60771 1.913 27 28/06/04 8938 9179 9318 9644 10178 7630 6346 61233 1.927 28 5/07/04 9069 9189 99260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 9523 9609 9909 6958 2424 66123 1.927 29 12/07/04 8191 8472 9014 9311 9906 7067 5490 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 58558 1.843 31 26/07/04 8608 8690 9133 9401 9741 7435 5750 58746 1.808 32 2/08/04 8858 8996 8961 9262 9799 9598 9598 2426 5938 1.870 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.853 34 16/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.853 35 23/08/04 9000 9105 9287 9519 10027 7057 5857 5965 6956 5938 1.873 36 13/09/04 9042 9285 9123 9465 10317 6716 5690 5938 1.870 39 13/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.893 30 13/09/04 9041 918 919 9370 9507 10354 6911 5922 60286 1.8893 31 13/09/04 9040 9041 9189 9370 9507 10354 6911 5922 60286 1.8893 31 14/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0113 31 14/10/04 9313 9659 9975 10132 10590 11293 7502 6359 6534 2.0113 31 14/10/04 9313 9655 9975 10132 10590 11293 7502 6359 6546 2.0637 31 14/10/04 9313 9655 9975 10132 10590 11293 7502 6359 6546 2.0637 31 14/10/04 9313 9855 9975 10132 10590 11293 7502 6359 6546 2.0637 31 13/10/04 9060 8643 9481 9983 10925 7611 6677 6679 61894 1.9487 31 14/10/04 9336 9565 9672 9843 10925 7611 6677 6679 61894 1.9487 31 14/10/04 9336 9565 9975 10150 10150 10767 8241 7794 6436 6356 1.9904 32	15									62581	1.9704
17 19/04/04 9122 9199 9502 9625 10636 7896 5802 6161 56092 1.767 18 26/04/04 5422p 9171 9321 9344 10131 7452 5611 56452 1.777 19 3/05/04 8765 9040 9189 9450 9895 7324 6629 60222 1.896 20 10/05/04 8634 9037 9134 9440 9921 7021 5791 58978 1.856 21 17/05/04 8630 8866 8991 9361 9990 7217 5827 58932 1.855 22 24/05/04 8592 8902 8947 9106 9745 7171 6017 58480 1.841 23 31/05/04 8592 8902 8947 9106 9745 7171 6017 58480 1.842 24 7/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 25 14/06/04 5451p 8921 9042 9149 9756 6805 6047 55171 1.792 27 28/06/04 8939 9179 9421 9568 10153 7165 6197 60771 1.913 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 99523 9609 9909 6958 4240 8858 8961 8660 9133 9401 9741 7435 5750 58746 1.843 31 12/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.803 32 2/08/04 8789 9133 9296 9334 10069 7023 5285 58938 1.853 33 2/08/04 8789 9133 9296 9334 10069 7023 5285 58938 1.853 34 16/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.873 35 23/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.873 36 30/08/04 8798 9133 9296 9345 10189 6923 6504 59954 1.887 36 30/08/04 8798 9133 9296 9346 10157 7403 6073 59061 1.859 37 6/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.871 36 30/08/04 9014 9198 9370 9507 10154 6911 5954 68286 1.893 36 31/09/04 9014 9198 9370 9507 10155 7465 5696 69383 1.870 37 6/09/04 9461 9563 9628 9688 10097 731 5715 5666 59388 1.873 36 30/08/04 8792 9351 9741 10013 10165 7145 5666 60286 1.893 36 31/09/04 9014 9198 9370 9507 10354 6911 5936 6477 62248 1.895 37 6/09/04 9461 9563 9628 9945 10316 12349 7115 5855 6426 86381 1.875 38 13/09/04 9014 9198 9370 99507 10354 6911 5936 6474 62248 1.9599 38 13/09/04 9014 9198 9370 99507 10354 6911 5936 6477 62248 1.8959 39 13/09/04 9049 8641 8841 9288 9490 7230 5808 63832 1.8978 30 13/09/04 9049 8641 8841 9288 9490 7230 5808 66381 1.8979 31 13/10/04 9059 9359 975 10132 10590 11293 7502 6359 6556 22.033 31 18/10/04 9094 8641 8841 9288 9490 7230 5808 7604 63591 2.0337 31 18/10/04 9931 9659 9975 10132 10590 11293 7502							_			61218	1.9275
18			-						6161	56092	1.7661
19 3/05/04 8765 9040 9189 9450 9885 7324 6629 60282 1.896 20 10/05/04 8872 9175 9106 9462 10078 7203 5781 59677 1.878 21 17/05/04 8664 8937 9134 9440 9921 7021 5791 58978 1.855 22 24/05/04 8660 8866 8991 9361 9990 7217 5827 58932 1.855 23 31/05/04 8702 8993 9365 9428 10662 7689 6139 60958 1.919 25 14/06/04 8702 8993 9365 9428 10662 7689 6139 60958 1.919 25 14/06/04 8702 8993 9365 9428 10662 7689 6139 60958 1.919 26 21/06/04 8938 9179 9318 9588 10153 7165 6197 60771 1.913 27 28/06/04 8938 9179 9318 9644 10178 7630 6346 61233 1.927 28 25/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 9523 9609 9909 6958 4240 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.849 33 9/08/04 8988 8996 8961 9262 9799 7556 5966 5938 1.855 34 16/08/04 8858 8996 8961 9262 9799 7556 5966 5938 1.853 34 16/08/04 8807 9014 8675 9274 10015 7403 6073 59061 1.859 35 23/08/04 9009 9105 9287 9519 10027 7057 5857 59952 1.884 36 30/08/04 8772 9064 9157 9345 10189 6693 6504 59954 1.887 37 6/09/04 9042 9285 9123 9465 10317 6716 5690 59538 1.870 38 13/09/04 9049 942 9285 9123 9465 10317 6716 5690 59538 1.877 39 20/09/04 8943 9550 9616 9724 10015 7403 6073 59061 1.859 39 20/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.897 39 20/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.897 31 14/10/04 9316 9455 10711 10098 11391 1719 5732 63862 2.011 34 16/10/04 9316 9455 10711 10098 11391 1719 5732 63862 2.011 34 15/10/04 9069 8643 9481 9943 10421 7667 6679 6894 1.987 36 11/10/04 9316 9455 10711 10098 11391 1719 5732 6356 6545 2.0637 31 13/12/04 9069 8643 9481 9943 10421 7667 6679 6894 1.987 36 11/10/04 9316 9455 10711 10098 11391 1719 5732 6386 6545 2.0637 31 13/12/04 9669 8679 9945 10316 12349 7112 5835 66459 2.0337 31 13/12/04 9668 8731 10008 10227 10565 8680 6548 65457 2.0639 32 2/11/04 9313 9655 9748 10362 11157 8186 6501 67922 1.385 32 2/11/04 9638 9731 10008 10227 10565 8680 6548 65457 2.0669 32 2/11/04 9333 9655 9748 10362 11157 8186 6506 6545									5882	61861	1.9477
20 10/05/04 8872 9175 9166 9462 10078 7324 6629 5627 1.876 21 17/05/04 8634 9037 9134 9440 9921 7021 5791 58978 1.856 22 24/05/04 8660 8866 8891 9361 9990 7217 5827 58932 1.855 23 31/05/04 8592 8992 8947 9106 9745 7171 6017 5846 1.854 24 7/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 25 14/06/04 5451p 8921 9042 9149 9756 6805 6047 55171 1.737 26 21/06/04 8990 9277 9421 9558 10153 7165 6197 60771 1.913 27 28/06/04 8938 9179 9318 9644 10178 7630 6346 61233 1.927 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 9523 9609 9909 6958 4240 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8858 8996 8961 9262 9799 7556 5966 5934 1.870 32 2/08/04 8858 8996 8961 9262 9799 7556 5966 5934 1.870 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.853 34 16/08/04 6607 9014 6675 9274 10015 7403 6073 59061 1.859 35 23/08/04 9000 9105 9287 9319 10027 7057 5857 59852 1.884 36 13/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.871 37 6/09/04 9044 9159 9350 9616 9724 1028 7653 6647 6624 59534 1.871 38 13/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.871 39 20/09/04 843 9550 9616 9724 10288 7653 6647 66224 1.892 31 16/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0112 31 16/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0112 31 16/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0112 31 16/10/04 9313 9655 9748 10362 7165 6677 66391 1.999 31 12/11/04 9060 8643 9481 9943 10421 7667 6679 61894 1.9487 31 15/11/04 9060 8643 9481 9943 10421 7667 6679 61894 1.9487 31 13/12/04 9038 9731 10008 1027 7067 885 64592 2.0337 31 13/12/04 9038 9731 10008 1027 7067 8241 7794 67443 2.1234 31 13/12/04 9038 9731 10008 1027 7067 8241 7794 67443 2.1234 31 13/12/04 9038 9731 10008 1027 70676 8241 7794 67443 2.1234 31 13/12/04 9638 9731 10008 1027 70667 6679 61894 1.9487 31 15/11/04 9406 9629 9945 10316 12349 7112 5856 6436 65457 2.0609 32/11/04 9638 9731 10008 100767 8241 7794 67443 2.1234 32/11/04 9638 9731 10008 100767 8241 7794 67443 2.1234 32/11/04 9638 97			-						5611		1.7774
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22 3 31/08/04 8690 8866 8991 9361 9990 7217 5827 58932 1.855 23 31/08/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 24 7/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 25 14/06/04 5451p 8921 9042 9149 9756 6805 6047 55171 1.737 27 28/06/04 8990 9277 9421 9568 10153 7165 6197 60771 1.913 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 9523 9669 9909 6958 4240 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.808 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.808 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.855 34 16/08/04 8607 9014 8675 9274 10015 7403 6073 59061 1.8593 35 23/08/04 9000 9105 9287 9519 10027 7057 5857 59852 1.884 36 30/08/04 8772 9064 9157 9345 10189 6923 6504 59954 1.887 36 30/08/04 9702 9285 9123 9465 10317 6716 65690 59588 1.870 39 20/09/04 9042 9285 9123 9465 10317 6716 65690 59588 1.870 39 20/09/04 9461 9563 9628 9688 10039 7351 6487 62248 1.9594 30 13/09/04 9461 9563 9628 9688 10039 7351 6487 62248 1.9594 31 18/10/04 6372p 9351 9741 10013 10165 7145 5566 58353 1.837 31 18/10/04 9994 8641 8841 9288 9470 7230 5808 58372 1.8378 31 18/10/04 9994 8641 8841 9288 9470 7230 5808 58372 1.8378 31 18/10/04 9994 8641 8841 9288 9470 7230 6359 65546 2.0637 31 18/10/04 9316 9455 10711 10098 11391 7179 5732 63802 2.0113 31 18/10/04 9994 8641 8841 9288 9470 7230 6359 65546 2.0637 31 18/10/04 9994 8641 8841 9288 9470 7230 6359 65546 2.0637 31 18/10/04 9969 9975 10132 10590 11293 7502 6359 65546 2.0637 31 13/10/04 9316 9455 10711 10098 11391 7179 5732 63802 2.0113 31 18/10/04 9969 8757 9937 9944 10027 7667 6679 61894 1.9487 31 13/12/04 9607 8757 9937 9944 10027 7978 6436 63581 2.0019 32 20/11/04 9607 8757 9937 9944 10027 70667 6679 61894 1.9487 33 18/10/04 9940 9040 9040 9040 9040 9040 9040							9921	7021	5791		1.8569
37/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 25 14/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 26 21/06/04 8990 9277 9421 9568 10153 7165 6197 60771 1.737 27 28/06/04 8938 9179 9318 9644 10178 7630 6346 61233 1.927 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 9523 9609 9909 6958 4240 58558 1.843 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.849 32 2/08/04 8858 8996 8961 9262 9799 7556 5966 59338 1.870 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.855 34 16/08/04 8607 9014 8675 9274 10015 7403 6073 59061 1.8593 36 32/08/04 8702 9000 9105 9287 9519 10027 7057 5857 59852 1.884 37 6/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.877 38 13/09/04 9014 9198 9370 9507 10354 6911 5932 60286 1.8873 39 20/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.9593 40 27/09/04 9461 9563 9628 9688 10099 7351 6487 62217 1.9583 41 1/10/04 6372p 9351 9741 10013 10165 7145 5566 58353 1.8372 41 1/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0112 41/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0112 41/10/04 9313 9659 9975 10132 10590 11293 7502 6359 65546 2.0637 41/10/04 9313 9655 9741 10013 10165 7145 5566 58353 1.8372 41/10/04 9695 9975 10132 10590 11293 7502 6359 65546 2.0637 41/10/04 9695 9975 10132 10590 11293 7502 6359 65546 2.0637 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8643 9481 9943 10421 7667 6679 61894 1.9487 41/10/04 9660 8679 9945 10316 12349 7112 5835 64592 2.0337 41/10/04 9638 9731 10008 10227 10655 8600 6548 65457 2.0609 40 27/12/04 9638 9731 10008 10227 10655 8600 6548 65457 2.0609 40 22/11/04 9638 9731 10008 10227 10655 8600 6548 65457 2.0609 40 22/11/04						9361	9990	7217	5827		1.8555
25 14/06/04 8702 8993 9365 9428 10642 7689 6139 60958 1.919 26 21/06/04 8990 9277 9421 9368 10153 7165 6805 6047 55171 1.737 27 28/06/04 8938 9179 9318 9644 10178 7630 6346 61233 1.927 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 9012 9307 9523 9609 9909 6958 4240 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.849 32 2/08/04 8858 8996 8961 9262 9799 7556 5966 59338 1.870 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.873 34 16/08/04 8607 9014 8675 9274 10015 7403 6073 59061 1.859 35 23/08/04 9000 9105 9287 9519 10027 7057 5857 59852 1.884 36 30/08/04 8772 9064 9157 9345 10189 6923 6504 59954 1.887 37 6/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.877 39 20/09/04 8943 9550 9616 9724 10288 7653 66744 62248 1.959 39 20/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.959 40 27/09/04 9461 9563 9628 9688 10039 7351 6487 62217 1.9588 41 4/10/04 6372p 9351 9741 10013 10165 7145 5566 58353 1.837 42 11/10/04 9316 9455 10711 10098 11391 7179 5732 63862 2.0113 31 318/10/04 9094 8641 8841 9288 9470 7230 5808 58372 1.8376 31 31/00/4 9060 8643 9881 9943 10421 7667 6679 61894 1.9486 32 2/11/04 9313 9655 9748 10316 12349 7112 5835 64592 2.0337 39 29/11/04 9606 8643 9881 9943 10421 7667 6679 61894 1.9487 30 13/10/04 9336 9265 9672 9843 10925 7611 6677 63229 1.9908 30 29/11/04 9608 8643 9881 9943 10421 7667 6679 61894 1.9487 30 29/11/04 9608 8643 9881 9943 10421 7667 6679 61894 1.9487 30 29/11/04 9608 8643 9811 9943 10421 7667 6679 61894 1.9487 30 29/11/04 9608 8643 9881 9943 10421 7667 6679 61894 1.9487 31 13/10/04 9336 9555 9748 10366 12349 7112 5835 64592 2.0337 31 13/10/04 9349 9907 10400 10500 10767 8241 7794 67443 2.1234 31 13/10/04 9349 9907 10400 10500 10767 8241 7794 67443 2.1234 31 13/10/04 9404 9505 975 10308 10309 70076 8241 7794 67443 2.1234 31 13/10/04 9404 9505 975 10308 10008 10227 10625 8680 6548 65457 2.0609 31 29/11/04 9406 9629 9945 10316 12349 7112 5835 64592 2.0337 31 29/11/04 9404 9405 9405						9106	9745	7171			
25 14/06/04 5451p 8921 9042 9149 9756 6805 6047 55171 1.737 26 21/06/04 8930 9277 9421 9568 10153 7165 6197 60771 1.913 27 28/06/04 9938 9179 9318 9644 10178 7630 6346 61233 1.927 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 28 5/07/04 9012 9307 9523 9609 9909 6958 4240 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.849 32 2/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.870 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.855 34 16/08/04 8607 9014 8675 9274 10015 7403 6073 59061 1.8593 36 30/08/04 8772 9064 9157 9345 10189 6923 6504 59954 1.8877 37 6/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.870 38 13/09/04 9014 9198 9370 9507 10354 6911 5932 60266 1.8987 39 20/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.8939 30 27/09/04 9461 9563 9628 9688 10039 7351 6487 62217 1.9584 31 14/10/04 6372p 9351 9741 10013 10165 7145 5566 58353 1.8372 31 18/10/04 9904 8461 8841 9288 9470 7230 5808 58372 1.8374 31 18/10/04 9316 9455 10711 10098 11391 7179 5732 63882 2.0113 31 18/10/04 9904 8641 8841 9288 9470 7230 5808 58372 1.8374 31 18/10/04 9336 9265 9672 9843 10925 7611 6677 63229 1.9908 32 22/11/04 9303 9855 9348 10327 7057 8856 6459 2.0337 33 13/2/04 9940 9668 9731 10008 10237 7502 6359 65546 2.0637 34 15/11/04 9669 9639 9975 10316 12349 7112 5835 64592 2.0337 35 22/11/04 9313 9655 9748 10362 11537 8186 9501 6792 2.1385 32 22/11/04 9313 9855 9348 10027 7057 8886 61096 7388 61096 1.9236					9365	9428	10642	7689			
21/06/04 8990 9277 9421 9568 10153 7165 6197 60771 1.913 27 28/06/04 8938 9179 9318 9644 10178 7630 6346 61233 1.927 28 5/07/04 9069 9189 9260 9753 9867 7095 5800 60033 1.890 29 12/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8866 8680 9133 9401 9741 7435 5750 58746 1.849 32 2/08/04 8858 8996 8961 9262 9799 7556 5966 59398 1.870 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.873 34 16/08/04 8607 9014 8675 9274 10015 7403 6073 59061 1.859 35 23/08/04 9000 9105 9287 9519 10027 7057 5857 59852 1.884 36 30/08/04 8772 9064 9157 9345 10189 6923 6504 59954 1.887 38 13/09/04 9042 9285 9123 9465 10317 6716 5690 59638 1.877 39 20/09/04 8943 9550 9616 9724 10288 7653 6474 62248 1.897 39 13/09/04 9461 9563 9628 9688 10039 7351 6487 62247 1.9588 40 27/09/04 9461 9563 9628 9688 10039 7351 6487 62247 1.9588 40 27/09/04 9994 8641 8841 9288 9470 7230 5808 58372 1.8378 41 14/10/04 9316 9455 10711 10098 11391 7179 5732 63882 2.0113 41 25/10/04 9994 8641 8841 9288 9470 7230 5808 58372 1.8378 41 25/10/04 9969 9975 10132 10590 11293 7502 6359 65546 2.0637 41 25/10/04 9969 9975 10132 10590 11293 7502 6359 65546 2.0637 41 25/10/04 9369 9975 10132 10590 11293 7502 6359 65546 2.0637 41 25/10/04 9695 9975 10132 10590 11293 7502 6359 65546 2.0637 41 25/10/04 9368 9265 9672 9843 10925 7661 6677 63229 1.9908 48 22/11/04 9313 9655 9748 10362 11157 8186 9501 67922 2.1385 48 22/11/04 9313 9655 9748 10362 11157 8186 9501 67922 2.1385 48 22/11/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 27/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 27/12/04 9634 9907 10400 10500 10767 8241 7794 67443 2.1234 41 25/10/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 27/12/04 9433 9815 9865 9436 8962 9098 70004 63593 2.0022 40/12/04 9433 9815 9865 9436 8962 9098 7004 63593 2.0022 40/12/04 9433 9815 9865 9436 8962 9098 7004 63593 2.0022 40/12/04 9433 9815 9865 9436 8962 9098 7004 63593 2.0022 40/12/04 9433 9815 9865 9436 8962 9098 7004 63593 2			-	8921	9042	9149	9756				
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28			8938	9179	9318	9644					
29 12/07/04 9012 9307 9523 9609 9909 6958 4240 58558 1.843 30 19/07/04 8191 8472 9014 9311 9906 7067 5490 57451 1.808 31 26/07/04 8606 8680 9133 9401 9741 7435 5750 58746 1.849 32 2/08/04 8858 8996 8861 9262 9799 7556 5966 59388 1.863 33 9/08/04 8798 9133 9296 9334 10069 7023 5285 58938 1.850 34 16/08/04 8607 9014 8675 9274 10015 7403 6073 59061 1.859 35 23/08/04 9000 9105 9287 9519 10027 7057 5857 59652 1.884 36 30/08/04 8772 9064 9157 9345 10189 6923 6504 59954 1.887 37 6/09/04 9014 9198 9370 9507 10354 6911 5932 60286 1.898 38 13/09/04 9014 9198 9370 9507 10354 6911 5932 60286 1.898 39 20/09/04 8843 9950 9616 9724 10288 7653 6474 62248 1.9599 40 27/09/04 9461 9563 9628 9688 10039 7351 6487 62249 1.9599 41 4/10/04 6372p 9351 9741 10013 10165 7145 5566 58353 1.8372 42 11/10/04 9316 9455 10711 10098 11391 7179 5732 63882 2.0113 43 18/10/04 9994 8641 8841 9288 9470 7230 5808 58372 1.8378 44 25/10/04 9695 9975 10132 10590 11293 7502 6359 65546 2.0637 45 8/11/04 9236 9265 9672 9843 10925 7611 6677 63229 1.9908 46 8/11/04 9313 9655 9748 10362 11157 8186 9501 67922 2.1385 47 15/11/04 9406 9629 9945 10316 12349 7112 5835 64592 2.0337 48 22/11/04 9313 9655 9748 10362 11157 8186 9501 67922 2.1385 49 29/11/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 6/12/04 9413 9815 9865 9436 8962 9098 7004 63593 2.0022 40 27/12/04 9431 9815 9865 9436 8962 9098 7004 63593 2.0029 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0669 40 13/12/04 9638 9731 1000		5/07/04	9069	9189	9260						
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8 22/11/04 9313 9655 9748 10362 11157 8186 9501 67922 2.1385 9 29/11/04 9607 8757 9937 9944 10922 7978 6436 63581 2.0019 6/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0609 13/12/04 9834 9907 10400 10500 10767 8241 7794 67443 2.1234 2.0019 2.0019/12/04 9413 9815 9865 9436 8962 9098 7004 63593 2.0022 20/12/04 7505p 7399p 8792 9894 10015 9603 7888 61096 1.923									6677	63229	1.9908
9 29/11/04 9607 8757 9937 9944 10922 7978 6436 63581 2.0019 0 6/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0609 1 13/12/04 9834 9907 10400 10500 10767 8241 7794 67443 2.1234 2 20/12/04 9413 9815 9865 9436 8962 9098 7004 63593 2.0022 3 27/12/04 7505p 7399p 8792 9894 10015 9603 7888 61096 1.9236		,							5835	64592	2.0337
0 6/12/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0609 1 13/12/04 9834 9907 10400 10500 10767 8241 7794 67443 2.1234 2 20/12/04 9413 9815 9865 9436 8962 9098 7004 63593 2.0022 3 27/12/04 7505p 7399p 8792 9894 10015 9603 7888 61096 1.9236										67922	2.1385
0712/04 9638 9731 10008 10227 10625 8680 6548 65457 2.0609 1 13/12/04 9834 9907 10400 10500 10767 8241 7794 67443 2.1234 2 20/12/04 9413 9815 9865 9436 8962 9098 7004 63593 2.0022 3 27/12/04 7505p 7399p 8792 9894 10015 9603 7888 61096 1.9236 3 27/12/04 9933 9165 9411 9661 10376 7594 6326 61079									6436	63581	2.0019
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3 27/12/04 7505p 7399p 8792 9894 10015 9603 7888 61096 1.9236						9436	8962	9098	7004		
AADT AAWE AAWE			7505p 	7399p 	8792 	9894	10015	9603		61096	
	nual	Averages:	9033	9165	9411	9661	10376	7594	6326		
), n. n. m		
KIZK UKZD ZBZB									AADT 8726	AAWT 9538	AAWE 6960

p indicates Public Holiday

APPENDIX B

TRAFFIC SURVEYS RESULTS

R.O.A.R. DATA
Reliable, Original & Authentic Results
Ph.88196847, Fax 88196849, Mob.0418-239019
All Vehicles NORTH WEST SOUTH

		OTAL	20	78	36	47	46	20	82	100	99	37	47	43	605
H	Pt Rd	-													0
SOUTH	Soldiers Pt Rd	7	2	9	13	15	19	19	43	45	18	14	18	18	233
2	II Av	œΙ	14	22	22	29	26	30	40	51	46	22	25	22	349
WES	Bagnall Av	7	-	0	0	က	-	-	-	4	2	-	2	2	18
DINON	Soldiers Pt Rd	Ī													0
2	Soldier	S)	0	0	1	0	0	0	1	0	0	0	2	1	5
Salaria III		Time Per	0700 - 0715	0715 - 0730	0730 - 0745	0745 - 0800	0800 - 0815	0815 - 0830	0830 - 0845	0845 - 0900	0900 - 0915	0915 - 0930	0930 - 0945	0945 - 1000	Period End

	Q N	NORTH	*	NEST	SOUTH	JTH	
	Soldier	Soldiers Pt Rd	Bagn	Bagnall Av	Soldiers Pt Rd	s Pt Rd	
Peak Per	<u>س</u> ا	I	7	ایم	7	_	TOTAL
0200 - 0800	1	0	4	87	39	0	131
0715 - 0815	1	0	4	66	53	0	157
0730 - 0830	1	0	5	107	99	0	179
0745 - 0845	1	0	9	125	96	0	228
0800 - 0080	1	0	7	147	126	0	281
0815 - 0915	1	0	80	167	125	0	301
0830 - 0930	1	0	80	159	120	0	288
0845 - 0945	2	0	6	144	98	0	250
0900 - 1000	က	0	7	115	89	0	193

250	193	301	Soldiers Pt Rd	- →	.0_	•			+	-0	167	Soldiers Pt Rd
0	0		diers									liers
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144	115	167				7		ľ	Γ			
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0845 - 0845	0900 - 1000	PEAK HR		-13		1			1			

Client Job No/Name Day/Date

: T.T.P.A. : 2999 SALAMANDER BAY Sample Counts : Friday 26th February 2010

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0 2 69 0 3 19 1 1 5 24 1 1 6 17 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Time Per	A)	Ī	7	œ۱	7	-	TOTAL
0 2 36 0 3 19 1 3 17 1 5 24 1 6 17 1 6 17 1 2 19 1 1 9 15 1 19	1500 - 1515	0		2	69	30		101
0 36 278	1515 - 1530	0		2	38	30		89
1 3 17 1 5 24 1 1 5 24 1 1 6 17 1 1 2 15 1 1 19 1 1 6 15 1 1 19 1 1 19	1530 - 1545	0		က	19	28		20
2 2 14 1 5 24 1 1 6 17 1 1 2 19 3 1 1 19 1 1 9 15 1 1 19	1545 - 1600	1		က	17	22		43
1 5 24 1 3 14 1 6 17 1 2 19 3 1 1 19 1 5 15 1 0 36 278	1600 - 1615	2		2	4	38		26
1 3 14 1 6 17 1 2 15 1 2 19 3 1 1 19 1 5 15 1 6 36 278	1615 - 1630	1		5	24	20		20
1 6 17 1 2 15 3 1 19 1 6 15 1 0 36 278	1630 - 1645	1		3	14	27		45
1 2 15 1 2 19 3 1 1 19 1 5 15 12 0 36 278	1645 - 1700	1		9	17	30		2
1 2 19 3 1 1 19 1 5 15 12 0 36 278	1700 - 1715	1		2	15	30		48
3 1 19 1 5 15 12 0 36 278	1715 - 1730	1		2	19	39		61
1 5 15 12 0 36 278	1730 - 1745	3		1	19	31		25
12 0 36 278	1745 - 1800	1		5	15	28		49
	Period End	12	0	36	278	353	٥	679

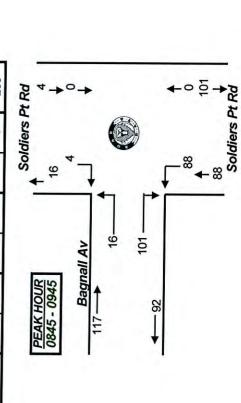
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R.O.A.R. DATA
Reliable, Original & Authentic Results
Ph.88196847, Fax 88196849, Mob.0418-239019

All Vehicles	2	NORTH	\$	WEST	SOUTH	TH	
	Soldier	Soldiers Pt Rd	Bagn	Bagnall Av	Soldiers Pt Rd	Pt Rd	
ime Per	ایم	I	7	œ۱	7	-1	TOTAL
0800 - 0815	0		0	17	8		25
0815 - 0830	0		1	23	6		33
0830 - 0845	1		3	27	13		4
0845 - 0900	3		2	23	26		22
0900 - 0915	0		5	56	56		22
0915 - 0930	0		က	29	15		47
0930 - 0945	-		3	23	21		48
0945 - 1000	1		2	22	14		39
1000 - 1015	2		က	24	18		47
1015 - 1030	2		4	23	18		47
1030 - 1045	4		4	23	24		55
1045 - 1100	2		2	24	22		20
Period End	16	0	35	284	214	٥	640

	NORTH	HH	WE	NEST	SS	SOUTH	
	Soldier	Soldiers Pt Rd	Bagnall Av	all Av	Soldier	Soldiers Pt Rd	
Peak Per	R	Ī	7	œ۱		H	TOTAL
0800 - 0900	4	0	6	06	26	0	159
0815 - 0915	4	0	14	66	74	0	191
0830 - 0930	4	0	16	105	8	0	205
0845 - 0945	4	0	16	101	88	0	209
0900 - 1000	2	0	13	100	9/	0	191
0915 - 1015	4	0	11	86	89	0	181
0930 - 1030	9	0	12	92	71	0	181
0945 - 1045	6	0	13	92	74	0	188
000 - 1100	10	0	13	94	82	0	199



TOTAL VOLUMES FOR PERIOD COUNTED

: T.T.P.A. : 2999 SALAMANDER BAY Sample Counts : Saturday 27th February 2010

Client Job No/Name Day/Date

Soldiers Pt Rd

319_ Bagnall Av 230

35

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Soldiers Pt Rd

284

214

© Copyright ROAR DATA

R.O.A.R. DATA Reliable, Original & Authentic Results

Ph.88196847, Fax 88196849, Mob.0418-239019

59 26 43 89 Soldiers Pt Rd At Driveways 29 42 29 30 28 25 0715 - 0730 0730 - 0745 0745 - 0800 0800 - 0815 0815 - 0830 0830 - 0845 0845 - 0900 0700 - 0715 Vehicles Time Per ₹

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Period End 0945 - 1000

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		₫	142	171	193	218	232	239	253	249	240
s Pt Rd	eways	SB	8	81	06	107	125	139	151	144	144
Soldiers Pt Rd	At Driveways	Bl	78	6	103	111	107	100	102	105	96
		Peak Per	0080 - 0020	715 - 0815	730 - 0830	745 - 0845	0060 - 0080	815 - 0915	0830 - 0830	845 - 0945	0001 - 0060

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102
PEAK HR

Hour 0930	151
Peak 0830 -	405

•	UMES	333	-
	TOTAL VOLUMES	←	-84

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Bagnall Ave Vehicles included

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		<u>T0</u>	87	74	2	4	83	26	22	72	8	11	22	88	10/
s Pt Rd	eways	SB	4	41	59	15	26	27	26	32	33	33	20	21	11/2
Soldiers Pt Rd	At Driveways	NB	43	33	35	59	37	59	59	40	47	4	37	37	WKK
W	Vehicles	Time Per	1500 - 1515	1515 - 1530	1530 - 1545	1545 - 1600	1600 - 1615	1615 - 1630	1630 - 1645	1645 - 1700	1700 - 1715	1715 - 1730	1730 - 1745	1745 - 1800	Doring End

R	8	3 TOT	9 269	1 245	7 227	1 218	1 246	118 263	24 284	18 286	7 272
Soldiers Pt Rd	At Driveways	NB SB	140 12	134 11	130 97	124 94	135 111	145 11	160 12	168 11	165 10
		Peak Per	1500 - 1600	1515 - 1615	1530 - 1630	1545 - 1645	1600 - 1700	1615 - 1715	1630 - 1730	1645 - 1745	1700 - 1800

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PEAK HR 168

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TOTAL VOLUMES

Job No/Name

: 2999 SALAMANDER BAY Sample Counts : Friday 26th February 2010 Day/Date

Client

PM

T.T.P.A.

R.O.A.R. DATA
Reliable, Original & Authentic Results
Ph.88196847, Fax 88196849, Mob.0418-239019

: T.T.P.A. : 2999 SALAMANDER BAY Sample Counts

Job No/Name Day/Date

Client

: Saturday 27th February 2010

		TOT	31	52	63	69	62	59	89	8	76	79	28	79	782
s Pt Rd	емауѕ	SB	18	29	32	34	30	38	22	93	36	42	45	4	398
Soldiers Pt Rd At Driveways	At Driv	NB	13	23	31	32	32	23	46	30	40	37	39	35	384
₩	Vehicles	Time Per	3800 - 0815	0815 - 0830	3830 - 0845	3845 - 0900	900 - 0915	915 - 0930	930 - 0945	945 - 1000	000 - 1015	015 - 1030	030 - 1045	045 - 1100	eriod End

All Through Traffic at Driveways Bagnall Ave Vehicles included

	Soldier	Soldiers Pt Rd	
	At Driv	At Driveways	
Peak Per	BN B	SB	TOT
0060	102	113	215
0915	121	125	246
0930	121	132	253
0945	136	122	258
1000	131	118	249
1015	139	124	263
1030	153	130	283
1045	146	153	588
1100	151	167	348
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PEAK HR | 151 | 167 | 318

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Peak Hour 1000 - 110	167	151

TOTAL VOLUMES

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Reliable, Original & Authentic Results Ph.88196847, Fax 88196849, Mob.0418-239019

: 2999 SALAMANDER BAY Sample Counts TTPA Job No/Name Client

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	: Friday 26th February 2010
	Day/Date

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Port Stephens EAST

Soldiers Pt Rd

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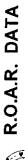
38

Diemars Rd Roundabout North bound to

Southbound

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Time Per	0700 - 0715	0740 - 0755	0820 - 0835	0900 - 0915	0940 - 0955

	11	00	Ξ	7	4
Time Per	1500 - 1515	1540 - 1555	1620 - 1635	1700 - 1715	1740 - 1755



Reliable, Original & Authentic Results

Ph.88196847, Fax 88196849, Mob.0418-239019

T.T.P.A. Client

: 2999 SALAMANDER BAY Sample Counts Job No/Name

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Diemars Rd Roundabout

North bound to

Southbound U-Tums 0740 - 0755 0820 - 0835 0900 - 0915 0940 - 0955 0700 - 0715 Time Per

: 2999 SALAMANDER BAY Sample Counts : Friday 26th February 2010 9 4 0 4 3 4 တ 9 O T.T.P.A. Peak Hour 0730 - 0830 Hotel Hotel 5 5 m TOTAL VOLUMES EAST Hotel EAST Hotel 9 Job No/Name Z 9 25 | 16 Day/Date PEAK HR Period End 0730 - 0745 0800 - 0815 0900 - 0915 0060 - 0080 0815 - 0915 0900 - 1000 0815 - 0830 0830 - 0845 0845 - 0900 0915 - 0930 0930 - 0945 0945 - 1000 0715 - 0815 0830 - 0930 0700 - 0715 0715 - 0730 0745 - 0800 0845 - 0945 0200 - 0800 0745 - 0845 730 - 083 Time Per Vehicles Peak Per ₹ 6 19 TOT 16 16 40 **T**01 12 10 œ 10 4 9 10 - Service 13 Peak Hour 0730 - 0830 6 Service 5 5 12 Crescent Crescent Seaview Seaview TOTAL VOLUMES EAST EAST AM 9 Z 13 1 32 PEAK HR 0930 - 0945 Period End 0745 - 0845 0845 - 0945 0800 - 0815 0830 - 0845 0845 - 0900 0900 - 0915 0060 - 0080 0815 - 0915 0900 - 1000 3700 - 0715 0715 - 0730 0730 - 0745 0745 - 0800 0945 - 1000 0700 - 0800 0715 - 0815 0830 - 0830 0815 - 08300915 - 0930 0730 - 0830 Peak Per Time Per Vehicles ₹ 9 0 5 15 9 54 20 21 m 2 œ 13 Peak Hour 0830 - 0930 4 9 3 Ph.88196847, Fax 88196849, Mob.0418-239019 5 Caravan Caravan TOTAL VOLUMES WEST Park WEST Park 7 Reliable, Original & Authentic Results 13 33 8 PEAK HR 0730 - 0745 0800 - 0815 0900 - 0915 Period End 0700 - 0715 0715-0730 0815 - 0830 0830 - 0845 0900 - 1000 0745 - 0800 0930 - 0945 0715 - 0815 0730 - 0830 0745 - 0845 0815 - 0915 0945 - 1000 0060 - 0080 0845 - 0900 0915 - 0930 0700 - 0800 0845 - 0945 Vehicles Time Per Peak Per 830 - 083 Caravan Caravan Park Park F 103 <u>10</u> 10 19 10 23 36 8 88 0 37 20 F 9 77 Peak Hour 0900 - 1000 21 50 500 Bowling 24 0 0 16 TOTAL VOLUMES Bowling WEST Club WEST Club 89 79 24 89 6/ 9 26 26 9 89 3 0945 - 1000 Period End PEAK HR 0845 - 0900 0900 - 0915 0700 - 0715 0715 - 0730 0730 - 0745 0745 - 0800 0800 - 0815 0815 - 0830 0830 - 0845 0915 - 0930 0930 - 0945 0060 - 0080 0815 - 0915 Vehicles 0715 - 0815 0745 - 0845 0845 - 0945 0200 - 0800 0830 - 0830 0730 - 0830 Time Per Peak Per Bowling Bowling Club ₹

T.T.P.A.

Reliable, Original & Authentic Results

: 2999 SALAMANDER BAY Sample Counts : Friday 26th February 2010 25 2 9 32 23 26 2 5 33 4 21 Hotel 50 딍 Peak Hour 9 19 9 œ EAST Hote! EAST Hote! 12 Job No/Name Z 4 9 4 12 Day/Date PEAK HR Period End 1600 - 1615 700 - 1715 1730 - 1745 700 - 1800 500 - 1515 530 - 1545 1545 - 1600 1630 - 1645 645 - 1700 745 - 1800 515 - 1615 1545 - 1645 600 - 1700 1645 - 1745 1530 - 1630 1630 - 1730 515 - 1530 1615 - 1630 715 - 1730 500 - 1600 615 - 1715 Vehicles Time Per Peak Per ₹ 38 4 10 28 27 38 56 œ œ 9 33 37 3 19 19 Seaview Peak Hour 1615 - 1715 5 5 9 69 22 18 16 4 19 Seaview Seaview EAST Cres EAST Cres PM PEAK HR | 19 49 19 8 Period End 1530 - 1545 1545 - 1600 1600 - 1615 1615 - 1630 1630 - 1645 1700 - 1715 1730 - 1745 1745 - 1800 1530 - 1630 1545 - 1645 1645 - 1745 1645 - 1700 1715 - 1730 1515 - 1615 1630 - 1730 1700 - 1800 1500 - 1515 1515 - 1530 1600 - 1700 1615 - 1715 1500 - 1600 Vehicles Time Per Peak Per ₹ 5 14 99 5 24 14 18 2 3 10 50 OUT Peak Hour Ph.88196847, Fax 88196849, Mob.0418-239019 Caravan Caravan WEST WEST Park Park 9 18 46 4 1500 - 1515 1545 - 1600 1600 - 1615 700 - 1715 Period End 1545 - 1645 PEAK HR 1515 - 1530 1530 - 1545 1630 - 1645 1645 - 1700 1715 - 1730 1730 - 1745 745 - 1800 1600 - 1700 1615 - 1715 1630 - 1730 1700 - 1800 1515 - 1615 Vehicles 1615 - 1630 1530 - 1630 Time Per 1645 - 1745 Peak Per Caravan Park ₹ 173 363 164 **T**01 9 125 26 23 15 35 99 <u> TOT</u> 26 35 88 93 47 8 8 84 Bowling 50 9 160 500 6 28 20 43 30 Peak Hour 37 8 47 2 8 83 Bowling 84 WEST Club WEST Club 92 203 13 16 16 28 15 Z 8 24 25 20 29 92 5 1530 - 1545 Period End PEAK HR 1545 - 1600 1600 - 1615 630 - 1645 1645 - 1700 1715 - 1730 730 - 1745 1500 - 1515 1515 - 1530 1615 - 1630 1700 - 1715 1745 - 1800 545 - 1645 1600 - 1700 1630 - 1730 1530 - 1630 1615 - 1715 1515 - 1615 700 - 1800 500 - 1600 645 - 1745 Time Per Peak Per Vehicles Bowling ₹

Hotel

1 36

4

49 --- Seaview

4 62

46

TOTAL VOLUMES

TOTAL VOLUMES

TOTAL VOLUMES

20

Caravan

160

Bowling Club

Park

203

TOTAL VOLUMES

Reliable, Original & Authentic F

: 2999 SALAMANDER BAY Sample Counts

T.T.P.A.

Client

Job No/Name

SAT

Saturday 27th February 2010

5

Ph.88196847, Fax 88196849, Mob.0418-235

EAST Hotel Z Day/Date Period End 0830 - 0845 0900 - 0915 0930 - 0945 1000 - 1015 0800 - 0815 0815 - 0830 0915 - 0930 0945 - 1000 1030 - 1045 1045 - 1100 0845 - 0900 1015 - 1030 Time Per 10 9 2 9 S ∞ 700 Crescent Seaview EAST Z 1000 - 1015 Period End 0800 - 0815 0815 - 0830 0830 - 0845 0845 - 0900 0900 - 0915 0930 - 0945 0945 - 1000 1030 - 1045 0915 - 0930 1015 - 1030 Time Per 0 5 Caravan WEST Park 26 0830 - 0845 0930 - 0945 1015 - 1030 Period End 0800 - 0815 0815 - 0830 0845 - 0900 0900 - 0915 0915 - 0930 0945 - 1000 1000 - 1015 1030 - 1045 1045 - 1100 Time Per 136 701 19 20 5 Bowling Club 36 WEST Period End 0900 - 0915 0815 - 0830 0830 - 0845 0845 - 0900 0915 - 0930 0945 - 1000 1000 - 1015 0800 - 0815 0930 - 0945 1015 - 1030 1030 - 1045 045 - 1100 Time Per

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	EAS	Hotel	Z	21	26	32	31	25	21	14	6	80	34	<u>Peak Hour</u> 0845 - 0945	1	3	TOTAL VOLUMES	1	29
			Peak Per	0060 - 0080	0815 - 0915	0830 - 0830	0845 - 0945	0900 - 1000	0915 - 1015	0930 - 1030	0945 - 1045	1000 - 1100	PEAK HR		31	1	101	. 19	Ţ
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APPENDIX C

HOTEL TRAFFIC GENERATION

Resort Hotel

(330)

Average Vehicle Trip Ends vs: Rooms

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

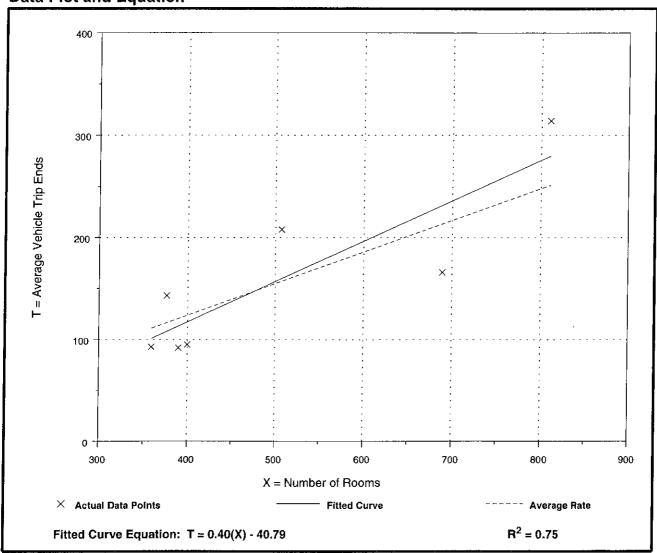
Number of Studies: 7
Average Number of Rooms: 504

Directional Distribution: 72% entering, 28% exiting

Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
0.31	0.24 - 0.41	0.57

Data Plot and Equation



Resort Hotel

(330)

Average Vehicle Trip Ends vs: Rooms

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

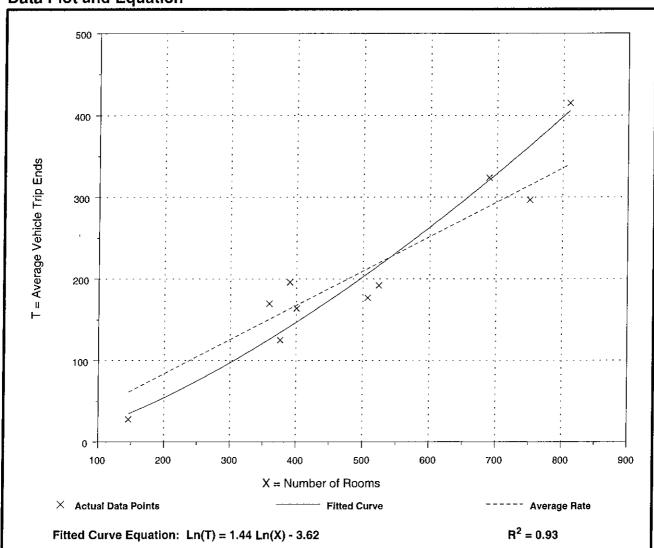
Number of Studies: 10 Average Number of Rooms: 495

Directional Distribution: 43% entering, 57% exiting

Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
0.42	0.19 - 0.51	0.65

Data Plot and Equation



APPENDIX D

BUS SERVICES

		Arr: Newcastle Station, Stand 3	7.55	9.22	10.55	11.55	1.55	3.00	5.17	6.58			
		Arr: Newcastle Airport	7.15	8.47	9.57	11.20	1.20	2.25	4.42	6.25			
netable	Monday to Friday - Soldiers Point to Newcastle	Arr: Anna Bay Dept: Anna Bay Arr: Newcastle	6.50	8.20	9.30	ı	,	•	•	•			
aches Tim	ers Point to	Arr: Anna Bay	X6.50	x8.20	x9.23	-	1	_	-	•		de buses	
Port Stephens Coaches Timetable	<u>lav</u> - Soldik	Dept: Salamander Bay Shopping Centre	-	-	•	10.37	12.37	1.42	4.02	5.45		x Denotes where to change buses	
Port Step	iday to Fric	Arr: Salamander Bay Shopping Centre	-	-	ı	x10.30	x12.25	X1.20	x3.20	x5.20		x Denotes	
	Mor	Dept: Soldiers Point	6.35	7.52	8.57	10.18	12.13	1.08	3.00	5.05			
		Bus Depts:	AM	AM	AM	₩	PM	Ą	ЬМ	₽M			
		Bus Route No:	30	30	30	31	31	31	31	31			

Denotes service by a bus with a "low floor" i.e. no steps and accessible by wheel chair

	2	Port Ste	phens Co idav - New	Port Stephens Coaches Timetable	Port Stephens Coaches Timetable Monday to Friday - Newcastle to Soldiers Point	4-2	
-	1						
Bus Depts:	Dept: Newcastle Station, Stand 3	Dept: Newcastle Airport		Arr: Anna Bay Dept: Anna Bay	Arr: Salamander Bay Shopping Centre	Arr: Salamander Dept: Salamander Bay Shopping Bay Shopping Centre Centre	Arr: Soldiers Point
	8.25	9.03	x9.30	9.30		1	9.47
	9.45	10.23	•	1	x11.12	11.37	11.47
	11.08	11.45	•	•	x12.30	12.55	1.07
	12.08	12.45	ı	ı	x1.30	1.50	2.03
	1.15	1.53	ı	ı	x2.42	2.42	2.57
	2.10	2.48	•	•	x3.35	4.02	4.15
	3.10	3.48	x4.12	4.12		,	4.30
	4.15	4.53	ı	•	x5.40	5.50	6.02
	5.27	6.05	ı	_	x6.43	6.45	6.55
		x Denotes	x Denotes where to change buses	sesnq ebu			

Denotes service by a bus with a "low floor" i.e. no steps and accessible by wheel chair

Saturday, Sunday & Public Holidays - Soldiers Point to Newcastle Route No. 31

Departs Soldiers Point	6.48#	8.48	10.23	12.38	3.18
Arrive Salamander Centre	7.00	9.00	10.35	12.50	3.30
Depart Salamander Centre	7.02	9.00	11.18	1.30	4.02
Arrive Airport	7.42	9.42	12.05	2.17	4.47
Arrive Newcastle	8.15	10.17	12.40	2.50	5.20

Change at Salamander Centre or Anna Bay for Newcastle

Saturday only (not Sundays or public holidays)

Saturday, Sunday & Public Holidays - Newcastle to Soldiers Point

Saturday, Suring & Fublic holidays - Newcastie to Soluters Point	· Newcastie to St	Juners Point			
Departs Newcastle stand 3	8.25	10.35	1.20	3.20	5.27
Departs Airport	9.03	11.13	1.57	3.55	6.03
Arrive Anna Bay			2.22		
Depart Anna Bay			TR 2.55		
Arrive Salamander Centre	9.45	11.55		4.40	6.40
Depart Salamander Centre	10.10	12.25		4.40	6.42
Arrive Soldiers Point	10.22	12.37	3.15	4.50	6.52

TR - Via Taylors Beach on Request

APPENDIX E

SIDRA RESULTS

MOVEMENT SUMMARY

Soldiers Point Road and Access AM Peak Giveway / Yield (Two-Way) Site: AM

Mov ID		rformance - Demand	HV	Deg.	Average	Level of	95% Back of		Prop.	Effective Stop Rate	Average
MOV ID	COLLE	Flow veh/h	%	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	per veh	Speed km/h
South: F	RoadNa		a monecular de la companya de la companya de la companya de la companya de la companya de la companya de la co								
2	T	107	0.0	0.040	0.2	LOS A	0.2	1.7	0.07	0.00	58.3
3	R	32	0.0	0.040	8.9	LOS A	0.2	1.7	0.27	0.74	48.3
Approac	ch	139	0.0	0.040	2.2	LOS A	0.2	1.7	0.12	0.17	55.7
East: Re	oadNam	6									
4	L	21	0.0	0.032	9.5	LOS A	0.1	1.0	0.30	0.62	47.6
6	R	6	0.0	0.032	9.6	LOS A	0.1	1.0	0.30	0.70	47.8
Approac	ch	27	0.0	0.032	9.5	LOS A	0.1	1.0	0.30	0.64	47.6
North: F	RoedNar								19 1 19 1 19 1 19 1 19 1 19 1 19 1 19		(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
7	L	4	0.0	0.042	8.2	LOS A	0.0	0.0	0.00	1.05	49.0
8	Т	159	0.0	0.042	0.0	LOS A	0.0	0.0	0.00	0.00	60.0
Approac	ch	163	0.0	0.042	0.2	LOS A	0.0	0.0	0.00	0.03	59.
All Vehi	des	329	-0,0	0.D42	1.8	NA	0.2		0.07	0.14	5 6.8

LOS (Aver. Int. Delay): NA. The average intersection delay is not a good LOS measure for two-way sign control due to zero delays associated with major road movements.

Level of Service (Worst Movement): LOS A. LOS Method for individual vehicle movements: Delay (RTA NSW).

Approach LOS values are based on the worst delay for any vehicle movement.

Processed: Monday, 7 June 2010 3:17:31 PM SIDRA INTERSECTION 4.0.18.1102

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Project: F:\WORK08\08186 - SALAMANDER SHORES, PORT STEPHENS\SIDRA\Soldiers Point Road and Access.sip

8000272, TRANSPORT &TRAFFIC PLANNING ASSOCIATES, SINGLE



MOVEMENT SUMMARY

Soldiers Point Road and Access PM Peak Giveway / Yield (Two-Way)

Mov ID	Turn	Demand Flow	HV	Deg. Satn	Average Delay	Level of Service	95% Back o Vehicles	of Queue Distance	Prop. Queued	Effective Stop Rate	Averag Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/
South: F	loadNa										
2	Т	177	0.0	0.058	0.2	LOS A	0.4	2.7	0.09	0.00	58.
3	R	32	0.0	0.058	8.8	LOS A	0.4	2.7	0.25	0.81	48.
Approac	:h	208	0.0	0.058	1.5	LOS A	0.4	2.7	0.11	0.12	56.
East: Ro	adNem	o									
4	L	32	0.0	0.040	9.2	LOS A	0.2	1.3	0.25	0.62	47.
6	R	5	0.0	0.040	9.3	LOS A	0.2	1.3	0.25	0.71	47.
Approac	:h	37	0.0	0.040	9.2	LOS A	0.2	1.3	0.25	0.63	47
North: R	oadNar	116	7								
7	L	7	0.0	0.034	8.2	LOS A	0.0	0.0	0.00	1.01	49.
8	Т	124	0.0	0.034	0.0	LOS A	0.0	0.0	0.00	0.00	60
Арргоас	:h	132	0.0	0.034	0.5	LOS A	0.0	0.0	0.00	0.06	59
VI Vehic		377	0.0	0.058	119	NA :		27	0.09	0.15	56.

LOS (Aver. Int. Delay): NA. The average intersection delay is not a good LOS measure for two-way sign control due to zero delays associated with major road movements.

Level of Service (Worst Movement): LOS A. LOS Method for individual vehicle movements: Delay (RTA NSW).

Approach LOS values are based on the worst delay for any vehicle movement.

Processed: Monday, 7 June 2010 3:18:55 PM SIDRA INTERSECTION 4.0.18.1102

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8000272, TRANSPORT &TRAFFIC PLANNING ASSOCIATES, SINGLE

SIDRA INTERSECTION

Site: PM

MOVEMENT SUMMARY

Soldiers Point Road and Access Sat Peak Giveway / Yield (Two-Way) Site: Sat

Mov ID	Turn	Demand	HV	Deg.	Average	Level of	95% Back		Prop.	Effective	Average
MOA ID	HUITE	Flow		Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South: F	AT INF	veh/h	%	v/c	sec	figur to the file	veh	m	and the second second	per veh	km/h
2	T	159	0.0	0.058	0.2	LOS A	0.4	2.6	0.08		50.4
3	R	42	0.0	0.058	9.0	-				0.00	58.1
				***************************************		LOSA	0.4	2.6	0.29	0.76	48.3
Approac	in	201	0.0	0.058	2.1	LO\$ A	0.4	2.6	0.13	0.16	55.7
East: Ro	adNam										
4	L	42	0.0	0.057	9.6	LOS A	0.3	1.8	0.31	0.64	47.5
6	R	7	0.0	0.057	9.7	LOS A	0.3	1.8	0.31	0.73	47.4
Approach		49	0.0	0.057	9.6	LOS A	0.3	1.8	0.31	0.65	47.5
North: R	oadNar	ne		ari M. Arrige							Pengangangan Pengangan
7	L	7	0.0	0.047	8.2	LOS A	0.0	0.0	0.00	1.03	49.0
8	Τ	176	0.0	0.047	0.0	LOS A	0.0	0.0	0.00	0.00	60.0
Approac	h	183	0.0	0.047	0.3	LOS A	0.0	0.0	0.00	0.04	59.5
									ningappadaken		
All Vehic	yes .	434	0.0	0.058	2,2	NA NA	0.4	2.6	0,09	0.17	56.1

LOS (Aver. Int. Delay): NA. The average intersection delay is not a good LOS measure for two-way sign control due to zero delays associated with major road movements.

Level of Service (Worst Movement): LOS A. LOS Method for individual vehicle movements: Delay (RTA NSW).

Approach LOS values are based on the worst delay for any vehicle movement.

Processed: Monday, 7 June 2010 3:19:44 PM SIDRA INTERSECTION 4.0.18.1102

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