Traffic Solutions Pty Ltd



PROPOSED MASTERPLAN FOR RESIDENTIAL AND COMMERCIAL DEVELOPMENTS AT ANSON STREET, ST GEORGES BASIN

TRAFFIC AND PARKING ASSESSMENT

March 2017

Ref: 10.11.162

P.O Box 9161 Bathurst NSW 2795 Phone: (02) 6331 0467 Email: craig@trafficsolutions.com.au

PROPOSED MASTERPLAN FOR RESIDENTIAL AND COMMERCIAL DEVELOPMENTS AT ANSON STREET, ST GEORGES BASIN – TRAFFIC AND PARKING ASSESSMENT

Prepared By: Craig Hazell Director Traffic Solutions P/L P.O Box 9161 Bathurst NSW 2795 Ph. 02 6331 0467 M. 0417 262 057

Chogel.

For: Mr. Stephen Richardson Cowman Stoddart Pty Ltd Po Box 738 Nowra NSW 2541 T 02 4423 6198 T 02 4423 6199

On Behalf Of: Mr. David De Battista

Report No.: 10.11.162

Date: 10 March 2017

Issue: FINAL

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1. <u>INTRODUCTION</u>

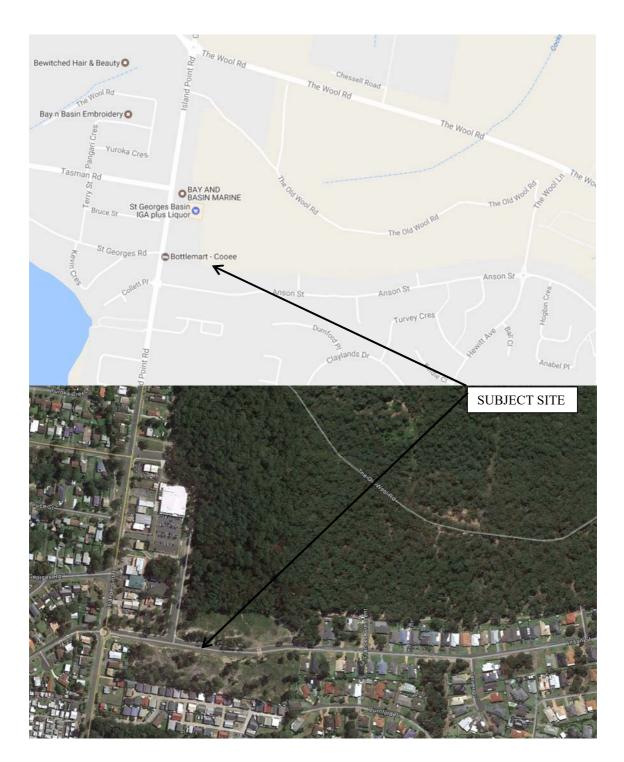
This report has been prepared to accompany an application to Shoalhaven City Council for a proposed Masterplan for residential and commercial developments located at Anson Street, St Georges Basin. (Figure 1)

The Masterplan proposes 15 separate buildings containing 380 residential units (comprising 88 two bedroom units, 292 three bedroom units) and 2233m² of commercial floor. The commercial floor space is proposed in buildings J and K only.

Parking for 783 cars is proposed in basement car parks below each of the buildings and the number of car spaces is assessed in section 4 of this report.

This report examines the traffic implications of the proposed development and will assess the:

- Proposed access arrangements.
- Adequacy and suitability of the off-street parking provision.
- Estimated traffic generation of the proposal.
- Impacts of the estimated traffic generation on the existing road network.



LOCATION Fig 1

2. <u>PROPOSED DEVELOPMENT</u>

SITE

The proposed development is situated on both sides of Anson Street, St Georges Basin and is described as lots 1 and 6 in DP 1082382. The site is currently vacant land.

DEVELOPMENT PROPOSAL

The proposed development involves the construction of 15 multi-level buildings. The following table provides a breakdown of the proposal.

Table 2.1 – Master plan building breakdown						
Building	No of 2 bedroom units	No of 3 bedroom units	Commercial GFA	No of car parking spaces		
Α	9	20		107		
В	9	20				
С	5	18		44		
D	5	9		26		
E	4	24		54		
F	4	24		54		
G	5	12		32		
Н	9	24		62		
Ι	4	16		38		
J	5	17	1433m ²	82		
K	8	27	800m ²	89		
L	4	8		22		
М	5	25		58		
N	5	24		56		
0	7	24		59		
Total	88	292	2233m ²	783		

Vehicle access to each building is proposed directly off Anson Street with the exception of Building K and L which obtain access off the Village Access Road.

This report has been prepared using plans prepared by Shobha Designs, Master Plan – Site analysis plan, drawing number M01, revision A and dated 14^{th} February 2017. Also, the Masterplan – approximate yield table has been used in this assessment. A reduced copy of the plan and table is reproduced in Appendix A.

3. <u>EXISTING CONDITIONS</u>

The following routes are classified as regional roads which is under the care and control of Council:

- The Wool Road from Princes Hwy to Island Point Road;
- Island Point Road from The Wool Road to Loralyn Avenue;
- Loralyn Avenue, Walmer Avenue and Larmer Avenue between Island Point Road and The Wool Road;
- The Wool Road east of Lamer Avenue.

Island Point Road, south of The Wool Road roundabout serves a major collector road function whilst Anson Street serves a minor collector road function in this area.

The main features of the existing traffic controls in the vicinity of the site are:

- Slow points along Anson Street at the Eastern end of the site.
- A 50 Km/h speed limit exists along Island Point Road, Anson Street and The Wool Lane.
- Island Point Road east of The Wool Road is 60 km/h.
- The Wool Road west of Island Point Road is 80 km/h.

Island Point Road is approximately 12.8m wide and has been provided with barrier kerb and gutter on both sides and centre line marking. Anson Street is 12.8m wide along the frontage of the Masterplan buildings reducing to 6m wide to the east with roll top kerb widening at the slow points where barrier kerbing is provided to aid deflection.

There are no restrictions on parking in the immediate vicinity of the subject site.

Data on the traffic movements in the vicinity of the subject site have been collected by surveys undertaken as part of this assessment from 6.00am - 9.00am and 3.00pm - 6.00pm on Tuesday 10th May 2011 at the following intersections:

- 1. Island Point Road, Gumden Lane and The Wool Road
- 2. Anson Street, The Wool Lane and Hewitt Avenue
- 3. The Wool Road and The Wool Lane.
- 4. Island Point Road, Anson Street and Collett Place.

Conditions on this day were described by the traffic counting firm as fine with no unusual circumstance encountered.

The peak hour flows at each intersection were recorded as:

 $\circ~$ Island Point Road, Gumden Lane and The Wool Road from 7.45am –

8.45am and 3.45pm – 4.45pm.

- Anson Street, The Wool Lane and Hewitt Avenue from 7.45am 8.45am and 4.00pm 5.00pm.
- $\circ~$ The Wool Road and The Wool Lane were found to be from 8.00am-9.00am and 3.30pm-4.30pm.
- Island Point Road, Anson Street and Collett Lane 7.45am –
 8.45am and 3.45pm 4.45pm.

The recorded flows are depicted on Figure 2 and 3 on the following page. The detailed results of the surveys are attached as appendix A.

Due to the time between the counts that were originally undertaken for this Masterplan an indication of the traffic growth in the area can be gauged by referencing the nearest permanent counting station which is located on Jervis Bay Road. The RMS website provides the following Annual Average Daily Traffic (AADT) volumes for this station. The following table indicates the growth along Jervis Bay Road since 2011.

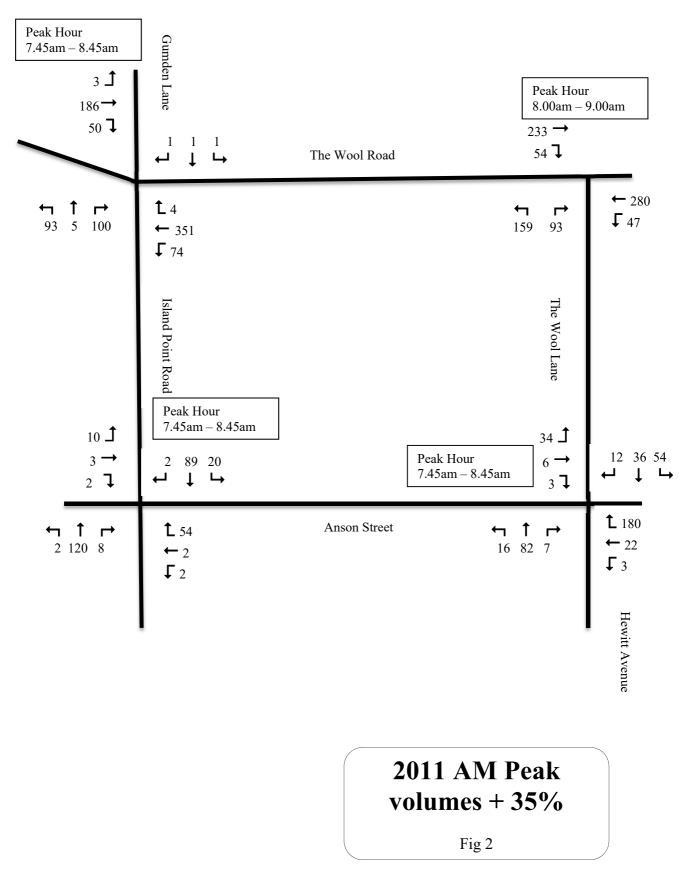
 Table 3.1 – AADT at Permanent counting station 07355, Jervis Bay Road, Falls Creek (north of Gardner Road)

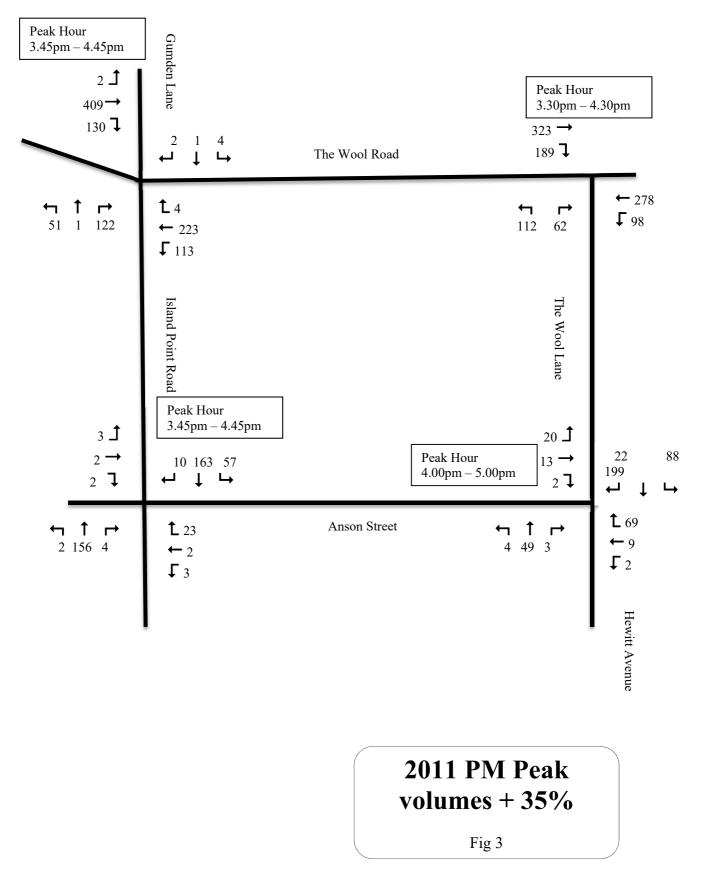
Year	AADT
2011	7171
2012	7169
2013	7439
2014	7465
2015	7806
2016	8526

Table 3.1 indicates an increase of 18.9 percent from 2011 to 2016. To assess the impact on the proposal due to seasonal factors the following table provides the percentage difference of the Average daily volumes over each month compared with the AADT for 2016 of 8526 vehicles per day from table 3.1

Table 3.2 – Av	Fable 3.2 – Average daily total vehicle volumes by month for 2016					
Year	Month	total	% difference to average			
2016	January	9,726	+14.1%			
2016	February	9,208	+8%			
2016	March	9,092	6.6%			
2016	April	8,569	0.01%			
2016	May	7,890	-7.5%			
2016	June	7,906	-7.3%			
2016	July	7,551	-11.4%			
2016	August	7,772	-8.8%			
2016	September	8,244	-3.3%			
2016	October	8,599	0.01%			
2016	November	9,178	7.6%			
2016	December	9,346	9.6%			

To ensure a robust assessment the traffic volumes recorded in 2011 will be increased by 35% to represent the growth in the area (18.9%) and the highest season traffic volume factor for January (14%).





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4. <u>KEY ISSUES</u>

ACCESS AND PARKING

Vehicular access to each of the buildings is proposed directly to Anson Street, with the exception of buildings K and L which will have vehicle access off the Village Access Road. The proposed vehicle access locations will provide good sight distance in both directions along Anson Street and the Village Access Road.

It will be a recommendation of this report that the design of the off-street car parking areas and driveways comply with the minimum requirements of the 'Australian/New Zealand Standards, Parking Facilities Part 1; Off Street Car Parking (AS/NZS 2890.1) of 2004

AS/NZS 2890.1:2004 classifies each of the buildings in the Masterplan as Class 1 offstreet car parking facilities requiring a Category 1 or 2 driveway (due to the number of spaces provided). Category 1 and 2 driveways should be 3 - 5.5m and 6 - 9m wide respectively.

Table 4.1 – I	Table 4.1 – Driveway requirements per building					
Proposed	Buildings	Parking facility Category of		Driveway width		
Lot			Driveway	required		
22 (Lot 6)	G, H & I	one underground car parking facility with one driveway- combined car parks 132	2	6 - 9 m		
23 (Lot 6)	E & F	one underground car parking facility with one driveway- combined car parks 108	2	6 - 9 m		
24 (Lot 6)	C & D	one underground car parking facility with one driveway- combined car parks 70	1	3 - 5.5m		
25 (Lot 6)	A & B	one underground car parking facility with one driveway- combined car parks 107	2	6 - 9 m		
26 (Lot 1)	0	one underground car parking facility with one driveway- 59 car parks	1	3 - 5.5m		
27 (Lot 1)	M & N	one underground car parking facility with one driveway- combined car parks 114	2	6 - 9 m		
28 (Lot 1)	K & L	- one underground car parking facility with one driveway- combined car parks 111	2	6 - 9 m		
29 (Lot 1)	J	one underground car parking facility with two driveways- 82 car parks	1	3 - 5.5m		

The following table 4.1 provides details of the driveway requirements for each building

Shoalhaven City Council has constructed a single lane roundabout at the intersection of Island Point Road, Collett Place and the Anson Street extension. The operation of this roundabout is assessed in the following section of this report.

The splitter islands of the roundabout have been constructed as pedestrian refuge islands to complement the existing and future planned pedestrian footways.

A shared pedestrian/cycleway has been provided along the northern side of Anson Street. These paths are not indicated on the Masterplan drawings, however will be a

recommendation of this report.

"Chapter G21 Car Parking and Traffic of the Shoalhaven Development Control plan 2014" specifies the following requirements applicable to the Masterplan proposal:

Commercial use Retail use	 1 space per 40m² GFA 1 space per 24m² GLFA- Shop 1 space per 40m² – Designated Storage area
Residential Apartments	 1 space per small dwelling (<55m²) 1.5 spaces per medium dwelling (56m² · 85m²) 2 spaces per large dwelling (>86m²)

Although not indicated on the plans, the Architect has advised that the 2 bedroom units are of medium size whilst the 3 bedroom units are large dwellings and provided the following commercial/retail and storage areas:

Building J

Commercial Retail Retail storage Building k	= =	718m ² 358m ² 357m ²
Commercial	=	$400m^2$
Retail	=	200m ²
Retail storage	=	200m ²

The following table provides the off-street parking required for this development under Shoalhaven City Council's DCP:

Table 4.2 -	Table 4.2 – Car parking calculation table per building						
Building	No of 2 bedroom units @ 1.5 spaces/unit	No of 3 bedroom units @ 2 spaces/unit	Commercial @ 1/40m ² Retail @ 1/24m ² Retail Storage @ 1/50m ²	No. of car spaces required	No of car parking spaces proposed	Complies	
Α	9 x 1.5 = 13.5	$20 \ge 2 = 40$	n/a	53.5	107	\checkmark	
В	9 x 1.5 = 13.5	$20 \ge 20 \ge$	n/a	53.5	107	\checkmark	
С	5 x 1.5 = 7.5	18 x 2 = 36	n/a	43.5	44	\checkmark	
D	5 x 1.5 = 7.5	9 x 2 = 18	n/a	25.5	26	\checkmark	
Е	4 x 1.5 = 6	24 x 2 = 48	n/a	54	54	\checkmark	
F	4 x 1.5 = 6	24 x 2 = 48	n/a	54	54	\checkmark	
G	5 x 1.5 = 7.5	12 x 2 = 24	n/a	31.5	32	\checkmark	
Н	9 x 1.5 = 13.5	24 x 2 = 48	n/a	61.5	62	\checkmark	
Ι	4 x 1.5 = 6	16 x 2 = 32	n/a	38	38	\checkmark	
J	5 x 1.5 = 7.5	17 x 2 = 34	Commercial $718m^2 = 18$ Retail $358m^2 = 14.9$ Retail storage $357m^2 = 7.1$	81.5	82	~	

Table 4.2 (Table 4.2 (continued) – Car parking calculation table per building						
К	8 x 1.5 = 12	27 x 2 = 54	Commercial $400m^2 = 10$ Retail $200m^2 = 8.3$ Retail storage $200m^2 = 4$	88.3	89	\checkmark	
L	4 x 1.5 = 6	8 x 2 = 16	n/a	22	22	\checkmark	
М	5 x 1.5 = 7.5	25 x 2 = 50	n/a	57.5	58	\checkmark	
Ν	5 x 1.5 = 7.5	24 x 2 = 48	n/a	55.5	56	\checkmark	
0	7 x 1.5 = 10.5	24 x 2 = 48	n/a	58.5	59	\checkmark	
Total	88 x 1.5 = 132	292 x 2 = 584	Commercial $1118m^2 = 28$ Retail $558m^2 = 23.3$ Retail storage $557m^2=11.1$	778.3	783	\checkmark	

Note: Parking on site exceeding the minimum requirements will be provided for visitors. Provision will also be made for disabled car parking spaces in the parking areas for all buildings.

Accordingly, the proposed masterplan developments exceed Council's parking requirements with the provision of **783** off-street parking spaces.

TRAFFIC

An estimation of the traffic generation of the proposed development can be calculated by reference to the Roads and Maritime Services Technical Direction (TDT 2013/04) *'Guide to Traffic Generating Developments – Updated traffic surveys'*. This technical direction provides the following average peak hour traffic generation rates for high density residential flat dwellings and commercial offices in regional areas:

High Density residential flat buildings in Regional Areas

Weekday AM peak hour vehicle trips = 0.53 per dwelling Weekday PM peak hour vehicle trips = 0.32 per dwelling

Commercial

Weekday AM peak hour vehicle trips = $1.085/100m^2$ GFA Weekday PM peak hour vehicle trips = $0.86/100m^2$ GFA

Accordingly, the estimated traffic generation of this development calculates as:

AM Peak

380 units @ 0.53 trips/unit	=	201.4 peak hour trips
2283m ² GFA of commercial/retail @ 1.085 trips/100	$m^2 =$	24.8 peak hour trips
POTENTIAL TOTAL TRIPS	=	226 peak hour trips
PM Peak		
380 units @ 0.32 trips/unit	=	121.6 peak hour trips
2283m ² GFA of commercial/retail @ 0.86 trips/100n	$n^2 =$	19.6 peak hour trips
POTENTIAL TOTAL TRIPS	=	141 peak hour trips

Accordingly, the potential combined traffic generation of the proposed developments is approximately **226 and 141** vehicle trips in the morning and evening peak hours respectively.

For the purposes of this assessment it has been assumed that the residential component of this development will depart the site in the morning peak hour and the commercial component will approach the site, and that this situation will reverse in the evening peak hour. The 35% increase in flows are depicted along with the additional traffic flows (approaching and departing the area) in figures 4 and 5.

The estimated morning and evening peak hour approach and departure vehicle trips have been assigned proportionally to the road system on the basis of existing flows approaching and departing the area that were recorded at the key intersections counted. Figure 4 and 5 depicts the modelled morning and afternoon peak hour traffic volumes for the surrounding intersections.

Using SIDRA Intersection 6 Plus, a software programme developed for the purpose of analysing signalised, roundabout and sign controlled intersections, the effect of the estimated traffic generation of this development on the intersections of Island Point Road with The Wool Road and Anson Street plus the intersections of The Wool Lane with The Wool Road and Anson Street has been modelled to determine the impact of the proposal.

Tabled below are the results of the intersection modelling and attached as appendix B are the summary results of the SIDRA Files. A brief guide on evaluating the results of SIDRA analysis is reproduced in table 4.7 in the following pages:

Table 4.3 – SIDRA Analysis, Island Point Road, Gumden Lane and The Wool Road (roundabout)						
Operation 2011 volumes + 35% 2011 volumes + 35% + Masterplan						
Indicator	AM	PM	AM	PM		
Level of						
Service	А	А	А	А		
Degree of						
Saturation	0.306	0.424	0.310	0.478		
Total Average						
Delay (sec/veh)	6.6s	6.2s	6.7s	6.4s		

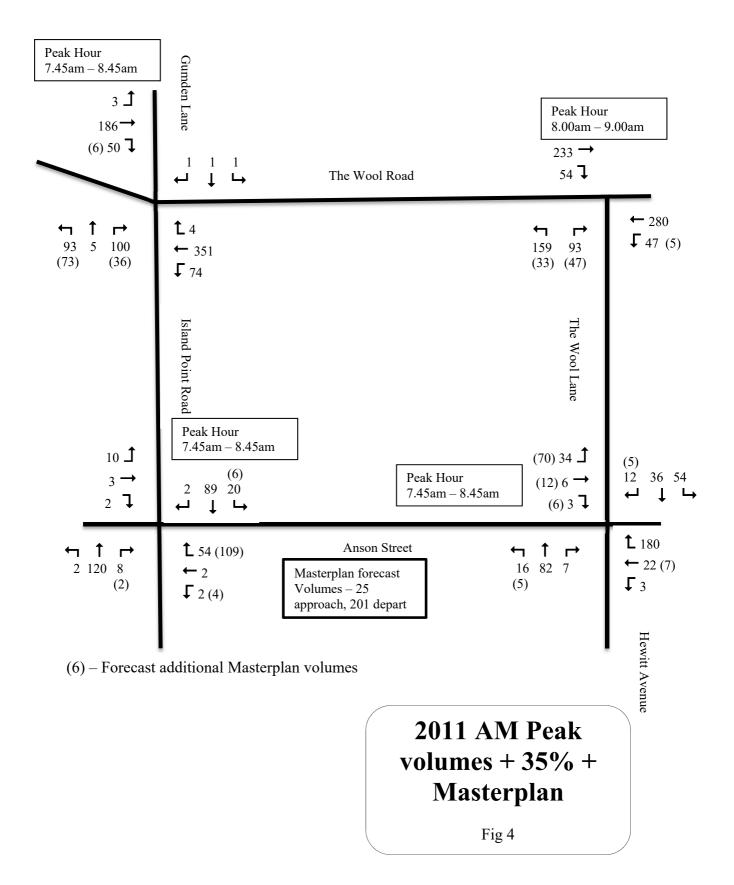
Table 4.4 – SIDRA Analysis, The Wool Road and The Wool Lane (Give Way controlled 'T' intersection)						
2011 volun	nes + 35%	2011 volumes + 3	5% + Masterplan			
AM	PM	AM	PM			
А	А	А	А			
0.151	0.174	0.208	0.174			
2.7s	3.3s	3.2s	3.5s			
7.9s	10.0s	8.1s	10.2s			
	2011 volun AM A 0.151 2.7s	intersection) 2011 volumes + 35% AM PM A A 0.151 0.174 2.7s 3.3s	intersection) 2011 volumes + 35% 2011 volumes + 3 AM PM AM A A A 0.151 0.174 0.208 2.7s 3.3s 3.2s			

Operation	2011 volu	nes + 35%	2011 volumes + 3	2011 volumes + 35% + Masterplan			
indicator	AM	PM	AM	PM			
Level of							
Service	А	А	А	А			
Degree of							
Saturation	0.155	0.212	0.165	0.234			
Total Average							
Delay (sec/veh)	5.3s	4.2s	5.2s	4.4s			

Table 4.6 – SIDRA Analysis, Island Point Road, Collett Place and Anson Street extension (roundabout)									
Operation	2011 volu	mes + 35%	2011 volumes + 3	35% + Masterplan					
indicator	AM	PM	AM	PM					
Level of									
Service	А	А	А	А					
Degree of									
Saturation	0.107	0.154	0.147	0.205					
Total Average									
Delay (sec/veh)	4.4s	3.9s	5.5s	4.0s					

The results of the SIDRA analysis reveals:

- The very good Level of Service at each of the intersections modelled will not • change with the estimated additional traffic generation of the proposed developments.
- The additional traffic demand on the intersections modelled, as a consequence of the proposed developments will only alter the Degree of Saturation and Total Average Delays minutely.



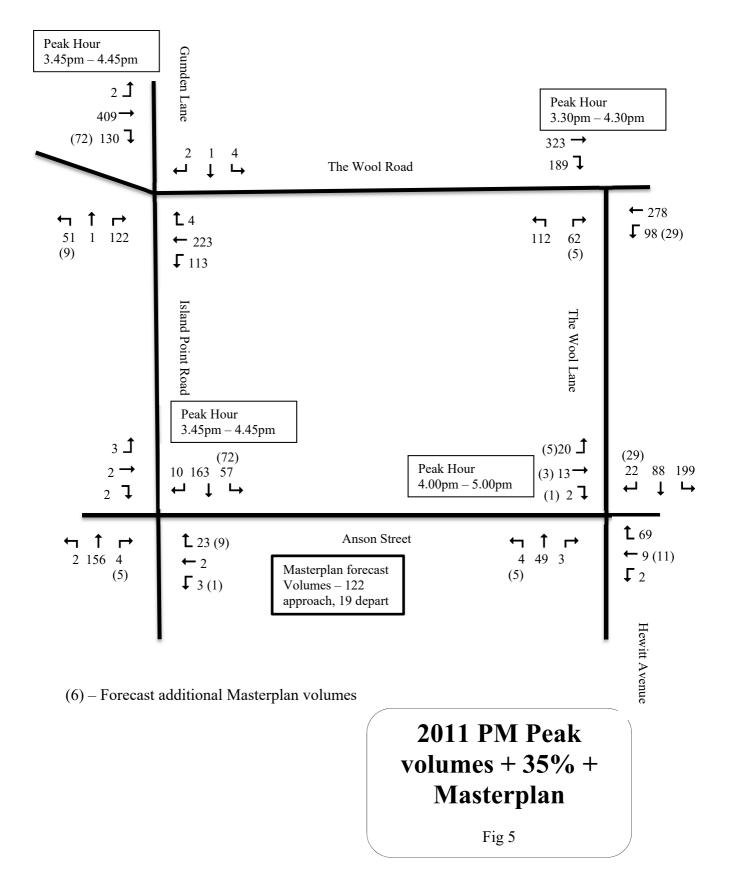


Table 4.7 – Evaluation of the results of SIDRA analysis

LEVEL OF SERVICE

THE LEVEL OF SERVICE FOR TRAFFIC SIGNALS, ROUNDABOUTS AND SIGN CONTROL INTERSECTIONS IS SHOWN BELOW, THIS IS BASED ON THE AVERAGE DELAY IN SECONDS PER VEHICLE:

AVERAGE DELAY PER VEHICLE	LEVEL OF SERVICE	TRAFFIC SIGNALS & ROUNDABOUTS	SIGN CONTROL
< 14	А	GOOD	GOOD
15 - 28	В	GOOD WITH MINIMAL DELAYS AND SPARE CAPACITY	ACCEPTABLE DELAYS AND SPARE CAPACITY
29 - 42	С	SATISFACTORY WITH SPARE CAPACITY	SATISFACTORY BUT ACCIDENT STUDY REQUIRED
43 - 56	D	SATISFACTORY BUT OPERATING NEAR CAPACITY	NEAR CAPACITY AND ACCIDENT STUDY REQUIRED
57 - 70	Е	AT CAPACITY: AT SIGNALS INCIDENTS WILL CAUSE EXCESSIVE DELAYS, ROUNDABOUTS REQUIRE ANOTHER CONTROL MODE	AT CAPACITY AND REQUIRES ANOTHER CONTROL MODE
>70	F	UNSATISFACTORY	UNSATISFACTORY

DEGREE OF SATURATION

THE DEGREE OF SATURATION IS ANOTHER MEASURE OF THE OPERATIONAL PERFORMANCE OF INDIVIDUAL INTERSECTIONS.

For traffic signal controlled intersections both queue length and delay increase rapidly as the Degree of Saturation approaches 1.0, and it is usually attempted to keep it below 0.9.

For roundabouts or sign controlled intersections, oversaturation is indicated by a value in excess of 0.8.

AVERAGE VEHICLE DELAY

The average vehicle delay provides a measure of the operational performance of an intersection as indicated in the above table. The average vehicle delays in the table should be used as a guide only as longer delays could be tolerated in some locations.

BUILDING SERVICING

The servicing of each individual building will need to be assessed with each individual development application.

Councils DCP does not require any loading facilities for medium or high density residential unit developments. However, the DCP does require access for a Small Rigid Vehicle (SRV) if the Commercial floor space is less 500m² GFA and HRV if over 500m². The Masterplan proposes Buildings J and K with commercial/retail floor spaces which exceed 500m².

A SRV is not as big as a garbage truck, but does require a 3.5m head clearance. The Medium Rigid Vehicle (MRV) is equivalent to a garbage truck whilst the Heavy Rigid Vehicle (HRV) is larger than a garbage truck. Both the MRV and HRV require a 4.5m head clearance in accordance with AS 2890.2:2002. Generally, the provision of any truck on any site will not be practical in the basement due to head clearances. Therefore, all servicing is likely to be at ground level.

Whilst it is preferred to have service areas separate from car parking areas and to have every individual lot able to be serviced by a garbage truck that can enter and leave each site in a forward direction, this is not always possible or practical.

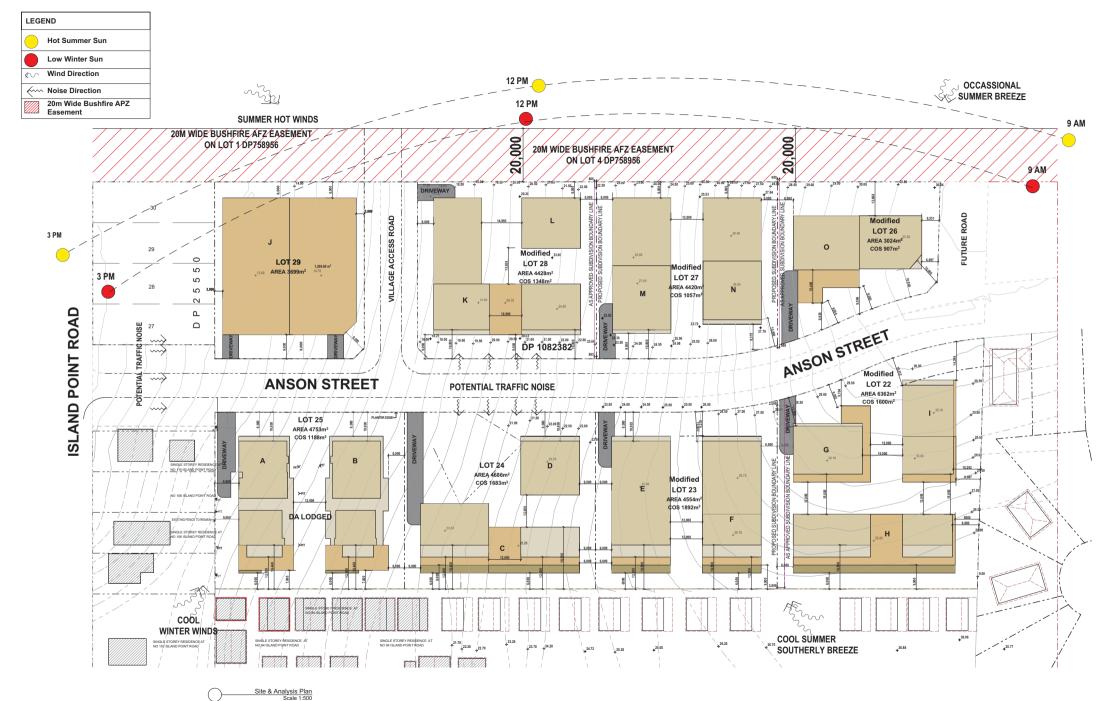
It is suggested that each development application for each lot should be assessed on its merits unless Council provides an appropriate direction or guideline.

5. <u>CONCLUSIONS AND RECOMMENDATIONS</u>

The preceding analysis has demonstrated that:

- The vehicle access points proposed to serve the individual development buildings are suitably located and will provide very good sight distance in each direction along Anson Street and the side Village Access Road.
- The off-street parking is proposed complies with the requirements specified by Shoalhaven City Council's Development Control Plan.
- It is **recommended** that the design of the off street car parking be to a minimum of the Australian Standards for off street parking and vehicular access AS/NZS 2890.1:2004.
- It is **recommended** that shared pedestrian/cycleway proposed along (proposed in Chapter N23 St Georges Basin, Village Centre of the Shoalhaven DCP) the northern side of Anson Street and eastern side of the Village Access Road be provided on the Masterplan drawing.
- The very good Level of Service at each of the intersections modelled will not change with the estimated additional traffic generation of the proposed development.
- The additional traffic demand on the intersections modelled, as a consequence of the proposed development will only alter the Degree of Saturation and Total Average Delays minutely.
- The potential combined traffic generation of the proposed developments of 226 and 141 vehicle trips in the morning and evening peak hours respectively will not have any unacceptable impacts upon the surrounding road network.
- It is **recommended** that servicing of each site for deliveries and garbage collection be assessed on the merits of each development application for each lot or Council develop an appropriate guideline.

APPENDIX A MASTERPLAN DRAWING



	PROJECT	Drawing Name	Issue No	4o. Amendments	Drwn. By	Date	Comments	Date of Issue	14-Feb-17
SHOBHA DESIGNS ARCHITECTS & URBAN DESIGNERS	MASTER PLAN - BUILDING ENVELOPE AND MASSING FOR LOTS 22 TO 28, DP 1082382, ANSON STREET, ST. GEORGES BASIN NSW	MASTER PLAN - SITE & ANALYSIS PLAN			MM & TT	14-Feb-17		Drawing Scale @ A1 1:500	
Suite 21, 1 - 7 Jordan 81, Gladesville NSW 2111 PHONE : 02 98790020 MOBILE : 0418112677 Shobha	CLENT David De Battista	Drawn By : MUNIRA M						Layout ID	Revision
MOBILE : 0418112677 EMAIL : nilesh@shobhadesigns.com.au	David De Battista	Checked By: NILESH MUNOT						M01	A

MASTERPLAN – Approximate yield

BUILDING	Α	В	С	D	E	F	G	Н
ZONING	AS PER DA	AS PER DA	ZONE R1 GENERAL RESIDENTIAL	ZONE R1 GENERAL RESIDENTIAL				
SITE AREA (M ²)			46	586	4	1554	6	5362
BUILDING ENVELOPE FOOTPRINT AREA (M ²)			1250	484	1126	1126	710	1335
HEIGHT	/		4 STOREYS	4 STOREYS	4 STOREYS	4 STOREYS	4 STOREYS	4 STOREYS
TOTAL ENVELOPE AREA			3235	1896	4037	4037	2379	4587
75% OF ENVELOPE AREA			2426	1422	3027	3027	1784	3440
DEVELOPMENT MIX			3 BED – 18 2 BED - 5	3 BED – 9 2 BED - 5	3 BED – 24 2 BED - 4	3 BED – 24 2 BED - 4	3 BED – 12 2 BED - 5	3 BED – 24 2 BED - 9
RESIDENTIAL PARKING SPACES			44	26	54	54	32	62
RETAIL/COMMERCIAL PARKING SPACES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
					1			
BUILDING	1	J	К	L	Μ	N	0	
ZONING	ZONE R1 GENERAL RESIDENTIAL & B4 MIX USE	ZONE B4 MIX USE	ZONE B4 MIX USE	ZONE B4 MIX USE	ZONE B4 MIX USE	ZONE B4 MIX USE	ZONE B4 MIX USE	
SITE AREA (m2)	6362	3699	44	128	4	1420	3024	_
BUILDING ENVELOPE FOOTPRINT AREA (m2)	764	2549	1625	415	1108	1034	1173	_
HEIGHT	4 STOREYS	2 STOREYS	4 STOREYS	4 STOREYS	4 STOREYS	4 STOREYS	4 STOREYS	
TOTAL ENVELOPE AREA (m2)	2829	5098	5966	1660	4320	4098	4341	
75% OF ENVELOPE AREA (m2)	2121	3823	4474	1245	3240	3073	3255	
DEVELOPMENT MIX	3 BED – 16 2 BED - 4	3 BED – 17 2 BED – 5 COMMERCIAL/RETAIL – 1433sqm	3 BED – 27 2 BED – 8 COMMERCIAL/RETAIL – 800sqm	3 BED - 8 2 BED - 4	3 BED – 25 2 BED – 5	3 BED – 24 2 BED - 5	3 BED – 24 2 BED - 7	
RESIDENTIAL PARKING SPACES	38	42	66	22	58	56	59	
RETAIL/COMMERCIAL PARKING SPACES	N/A	40	23	N/A	N/A	N/A	N/A	

APPENDIX B TRAFFIC COUNTS

ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / T	HE WO	OL LANE	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

Vehicle Movements Lights

	EA	ST	SOU	JTH	WI	EST	
	The W	ool Rd	The Wo	The Wool Lane		ane The Wool Rd	
Time Period	L	Т	L	R	Т	T R	
7:00 - 7:15	3	48	37	11	25	9	133
7:15 - 7:30	5	31	42	13	20	11	122
7:30 - 7:45	6	50	46	16	27	7	152
7:45 - 8:00	6	36	40	17	29	9	137
8:00 - 8:15	9	59	29	28	42	7	174
8:15 - 8:30	11	42	29	13	37	6	138
8:30 - 8:45	7	39	36	11	36	11	140
8:45 - 9:00	7	54	22	16	46	13	158
Period Ending	54	359	281	125	262	73	1154

	EA	ST	SOU	JTH	WF]	
	The Wool Rd		The Wool Lane		The Wool Rd		
Time Period	L	Т	L	R	Т	R	Total
7:00 - 8:00	20	165	165	57	101	36	544
7:15 - 8:15	26	176	157	74	118	34	585
7:30 - 8:30	32	187	144	74	135	29	601
7:45 - 8:45	33	176	134	69	144	33	589
8:00 - 9:00	34	194	116	68	161	37	610

ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / 1	THE WOOL LANE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

<u>Heavy</u>

	EA	AST	SOU	UTH	WI	EST	
	The Wool Rd		The Wool Lane		The W]	
Time Period	L	Т	L	R	Т	R	Total
7:00 - 7:15	0	1	0	0	2	1	4
7:15 - 7:30	0	3	1	0	7	1	12
7:30 - 7:45	0	2	0	0	4	0	6
7:45 - 8:00	1	4	0	0	4	1	10
8:00 - 8:15	0	7	0	0	2	1	10
8:15 - 8:30	0	1	0	0	6	1	8
8:30 - 8:45	1	2	1	1	2	0	7
8:45 - 9:00	0	3	1	0	2	1	7
Period Ending	2	23	3	1	29	6	64

	EAST		SO	UTH	WF		
	The Wool Rd		The Wool Lane		The Wool Rd		
Time Period	L	Т	L	R	Т	R	Total
7:00 - 8:00	1	10	1	0	17	3	32
7:15 - 8:15	1	16	1	0	17	3	38
7:30 - 8:30	1	14	0	0	16	3	34
7:45 - 8:45	2	14	1	1	14	3	35
8:00 - 9:00	1	13	2	1	12	3	32

ABN 80 061 513 933 Telephone and Fax : (02) 9624 5472

1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client TRA	AFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / T	THE WOOL LA	ANE	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

Combined

<u>neu</u>	EA	ST	SO	UTH	WI	EST	1
	The W	ool Rd	The Wo	ool Lane	The W	ool Rd	
Time Period	L	Т	L	R	Т	R	Total
7:00 - 7:15	3	49	37	11	27	10	137
7:15 - 7:30	5	34	43	13	27	12	134
7:30 - 7:45	6	52	46	16	31	7	158
7:45 - 8:00	7	40	40	17	33	10	147
8:00 - 8:15	9	66	29	28	44	8	184
8:15 - 8:30	11	43	29	13	43	7	146
8:30 - 8:45	8	41	37	12	38	11	147
8:45 - 9:00	7	57	23	16	48	14	165
Period Ending	56	382	284	126	291	79	1218

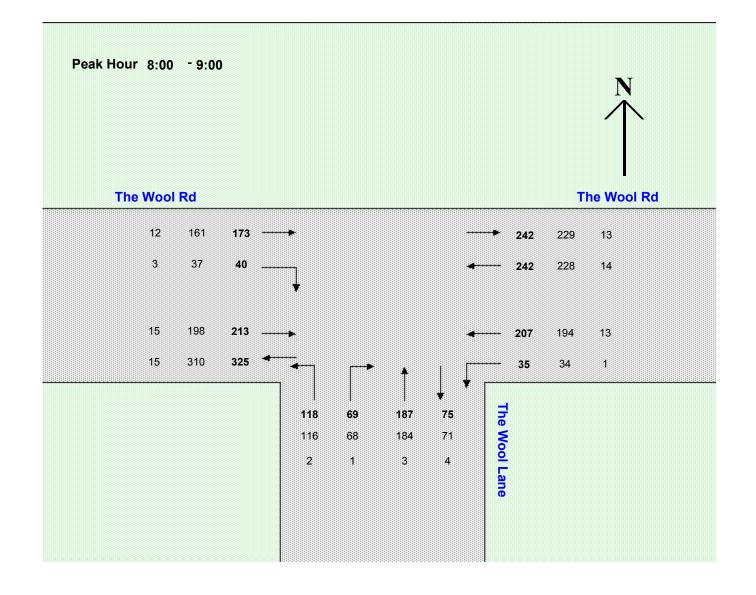
	EA	ST	SOU	JTH	WI		
	The W	ool Rd	The Wo	ool Lane	The W		
Time Period	L	Т	L	R	Т	R	Total
7:00 - 8:00	21	175	166	57	118	39	576
7:15 - 8:15	27	192	158	74	135	37	623
7:30 - 8:30	33	201	144	74	151	32	635
7:45 - 8:45	35	190	135	70	158	36	624
8:00 - 9:00	35	207	118	69	173	40	642

ABN 80 061 513 933 Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL	RD / THE WOOL LANE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

	The W	ool Rd	The Wo	ol Lane	The W		
VEHICLES	L	Т	L	R	Т	R	Total
Lights	34	194	116	68	161	37	610
Heavy	1	13	2	1	12	3	32
Total	35	207	118	69	173	40	642



ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-96	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE	/ ANSC	N ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

Vehicle Movements <u>Lights</u>

		NORTH	[EAST			SOUTH	[WEST		[
	The	e Wool L	lane		Anson S	t	Н	lewitt Av	ve		Anson S	t	ĺ
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 7:15	2	3	2	0	2	18	0	9	0	3	1	0	40
7:15 - 7:30	8	4	2	1	1	34	0	12	0	9	0	0	71
7:30 - 7:45	4	2	1	0	2	29	0	21	0	3	2	1	65
7:45 - 8:00	9	6	6	0	0	39	1	21	1	9	0	1	93
8:00 - 8:15	5	7	2	1	0	28	0	16	2	3	1	1	66
8:15 - 8:30	7	8	1	0	0	36	0	11	0	5	1	0	69
8:30 - 8:45	15	4	0	0	2	29	0	12	1	8	2	0	73
8:45 - 9:00	8	8	4	0	0	19	0	9	2	9	3	0	62
Period Ending	58	42	18	2	7	232	1	111	6	49	10	3	539

		NORTH	[EAST			SOUTH	-		WEST		
	The	e Wool L	ane	Anson St			Hewitt Ave			Anson St			
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 8:00	23	15	11	1	5	120	1	63	1	24	3	2	269
7:15 - 8:15	26	19	11	2	3	130	1	70	3	24	3	3	295
7:30 - 8:30	25	23	10	1	2	132	1	69	3	20	4	3	293
7:45 - 8:45	36	25	9	1	2	132	1	60	4	25	4	2	301
8:00 - 9:00	35	27	7	1	2	112	0	48	5	25	7	1	270

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Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Location THE WOOL LANE / ANSON ST / HEWITT AVE Suburb ST GEORGES BASIN	
Weather Fine Job Number	

Comments

<u>Heavy</u>

		NORTH	[EAST			SOUTH	[WEST		
	The	e Wool L	ane		Anson S	t	Н	lewitt Av	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 7:15	1	0	0	0	0	0	0	0	0	0	0	0	1
7:15 - 7:30	1	0	0	0	0	1	0	0	0	0	0	0	2
7:30 - 7:45	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 - 8:00	1	1	0	0	0	0	0	0	0	0	0	0	2
8:00 - 8:15	1	0	0	0	0	0	0	0	0	0	0	0	1
8:15 - 8:30	0	0	0	0	0	0	0	0	1	0	0	0	1
8:30 - 8:45	2	1	0	1	0	1	0	1	0	0	0	0	6
8:45 - 9:00	0	0	0	0	0	0	0	0	0	0	0	0	0
Period Ending	6	2	0	1	0	2	0	1	1	0	0	0	13

		NORTH	[EAST			SOUTH	[WEST		
	The	e Wool L	ane		Anson S	t	Н	ewitt A	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 8:00	3	1	0	0	0	1	0	0	0	0	0	0	5
7:15 - 8:15	3	1	0	0	0	1	0	0	0	0	0	0	5
7:30 - 8:30	2	1	0	0	0	0	0	0	1	0	0	0	4
7:45 - 8:45	4	2	0	1	0	1	0	1	1	0	0	0	10
8:00 - 9:00	3	1	0	1	0	1	0	1	1	0	0	0	8

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Count Number	J11-96	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE	/ ANSC	N ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

Combined

		NORTH	I		EAST			SOUTH	[WEST		
	The	e Wool I	lane	Anson St			Hewitt Ave			Anson St			
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 7:15	3	3	2	0	2	18	0	9	0	3	1	0	41
7:15 - 7:30	9	4	2	1	1	35	0	12	0	9	0	0	73
7:30 - 7:45	4	2	1	0	2	29	0	21	0	3	2	1	65
7:45 - 8:00	10	7	6	0	0	39	1	21	1	9	0	1	95
8:00 - 8:15	6	7	2	1	0	28	0	16	2	3	1	1	67
8:15 - 8:30	7	8	1	0	0	36	0	11	1	5	1	0	70
8:30 - 8:45	17	5	0	1	2	30	0	13	1	8	2	0	79
8:45 - 9:00	8	8	4	0	0	19	0	9	2	9	3	0	62
Period Ending	64	44	18	3	7	234	1	112	7	49	10	3	552

		NORTH	[EAST			SOUTH	[WEST		1
	The	e Wool I	ane		Anson S	t	Н	ewitt A	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 8:00	26	16	11	1	5	121	1	63	1	24	3	2	274
7:15 - 8:15	29	20	11	2	3	131	1	70	3	24	3	3	300
7:30 - 8:30	27	24	10	1	2	132	1	69	4	20	4	3	297
7:45 - 8:45	40	27	9	2	2	133	1	61	5	25	4	2	311
8:00 - 9:00	38	28	7	2	2	113	0	49	6	25	7	1	278

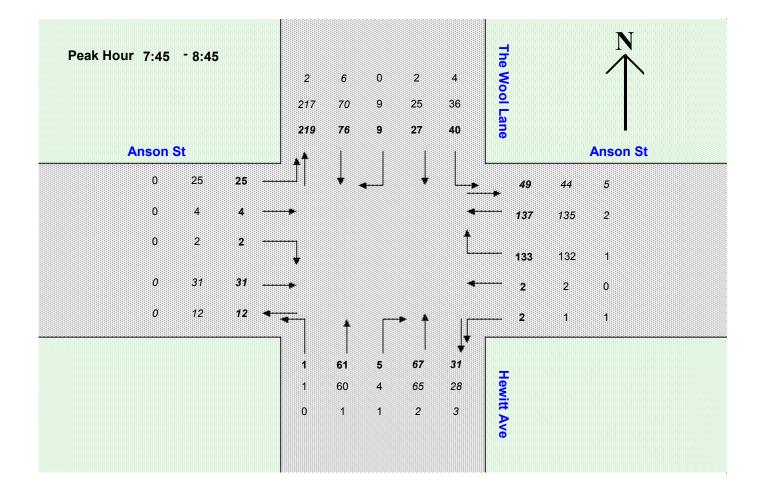
ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-96 Clier	t TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE / ANS	SON ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

	The	e Wool I	lane		Anson S	t	Н	ewitt Av	ve	1	Anson S	t	
Vehicle Class	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
Lights	36	25	9	1	2	132	1	60	4	25	4	2	301
Heavy	4	2	0	1	0	1	0	1	1	0	0	0	10
Total	40	27	9	2	2	133	1	61	5	25	4	2	311



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Count Number	J11-96	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE	/ ANSC	N ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

Vehicle Movements <u>Lights</u>

		NORTH	[EAST			SOUTH	[WEST		
	The	e Wool L	lane		Anson S	t	Н	lewitt Av	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 15:15	29	5	4	0	3	15	2	4	0	1	2	1	66
15:15 - 15:30	37	14	8	4	2	8	9	0	2	4	4	0	92
15:30 - 15:45	18	16	3	3	2	15	0	3	1	3	2	0	66
15:45 - 16:00	31	11	8	3	2	16	2	4	0	4	2	0	83
16:00 - 16:15	36	13	5	0	6	10	1	5	1	5	1	1	84
16:15 - 16:30	32	19	2	0	0	11	2	14	0	5	3	0	88
16:30 - 16:45	35	13	2	0	1	14	0	8	1	3	3	0	80
16:45 - 17:00	42	18	4	1	0	12	0	9	0	2	2	0	90
17:00 - 17:15	31	13	12	0	1	16	1	6	0	2	3	1	86
17:15 - 17:30	35	13	6	0	0	16	1	10	1	3	3	0	88
17:30 - 17:45	22	12	2	1	1	11	1	16	1	2	1	1	71
17:45 - 18:00	24	20	7	1	7	11	1	12	0	4	4	0	91
Period Ending	372	167	63	13	25	155	20	91	7	38	30	4	985

		NORTH	I		EAST			SOUTH	[WEST		[
	The	e Wool I	lane		Anson S	t	Н	lewitt Av	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 16:00	115	46	23	10	9	54	13	11	3	12	10	1	307
15:15 - 16:15	122	54	24	10	12	49	12	12	4	16	9	1	325
15:30 - 16:30	117	59	18	6	10	52	5	26	2	17	8	1	321
15:45 - 16:45	134	56	17	3	9	51	5	31	2	17	9	1	335
16:00 - 17:00	145	63	13	1	7	47	3	36	2	15	9	1	342
16:15 - 17:15	140	63	20	1	2	53	3	37	1	12	11	1	344
16:30 - 17:30	143	57	24	1	2	58	2	33	2	10	11	1	344
16:45 - 17:45	130	56	24	2	2	55	3	41	2	9	9	2	335
17:00 - 18:00	112	58	27	2	9	54	4	44	2	11	11	2	336

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Count Number	J11-96	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE	E / ANSO	N ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

<u>Heavy</u>

		NORTH	[EAST			SOUTH	[WEST		
	The	e Wool L	ane		Anson S	t	Н	lewitt Av	ve	1	Anson S	t	1
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 15:15	0	0	0	1	0	0	0	0	0	0	0	0	1
15:15 - 15:30	0	1	0	0	0	0	0	0	0	0	0	0	1
15:30 - 15:45	1	0	1	0	0	1	0	0	0	0	0	0	3
15:45 - 16:00	1	1	0	0	0	1	0	2	1	0	0	0	6
16:00 - 16:15	1	2	1	0	0	1	0	0	0	0	0	0	5
16:15 - 16:30	1	0	1	0	0	0	0	0	0	0	0	0	2
16:30 - 16:45	0	0	1	0	0	1	0	0	0	0	1	0	3
16:45 - 17:00	1	0	0	0	0	2	0	0	0	0	0	0	3
17:00 - 17:15	2	0	0	0	0	0	0	0	0	0	0	0	2
17:15 - 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30 - 17:45	0	0	0	0	0	1	0	0	0	0	0	0	1
17:45 - 18:00	0	0	0	0	0	0	0	0	0	0	0	0	0
Period Ending	7	4	4	1	0	7	0	2	1	0	1	0	27

		NORTH			EAST			SOUTH	[WEST		
	The	e Wool L	ane		Anson S	t	Н	lewitt Av	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 16:00	2	2	1	1	0	2	0	2	1	0	0	0	11
15:15 - 16:15	3	4	2	0	0	3	0	2	1	0	0	0	15
15:30 - 16:30	4	3	3	0	0	3	0	2	1	0	0	0	16
15:45 - 16:45	3	3	3	0	0	3	0	2	1	0	1	0	16
16:00 - 17:00	3	2	3	0	0	4	0	0	0	0	1	0	13
16:15 - 17:15	4	0	2	0	0	3	0	0	0	0	1	0	10
16:30 - 17:30	3	0	1	0	0	3	0	0	0	0	1	0	8
16:45 - 17:45	3	0	0	0	0	3	0	0	0	0	0	0	6
17:00 - 18:00	2	0	0	0	0	1	0	0	0	0	0	0	3

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Count Number	J11-96 Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE / ANSO	N ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

Combined

<u> </u>		NORTH	I		EAST			SOUTH	[WEST		
	The	e Wool I	lane		Anson S	t	Н	lewitt Av	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 15:15	29	5	4	1	3	15	2	4	0	1	2	1	67
15:15 - 15:30	37	15	8	4	2	8	9	0	2	4	4	0	93
15:30 - 15:45	19	16	4	3	2	16	0	3	1	3	2	0	69
15:45 - 16:00	32	12	8	3	2	17	2	6	1	4	2	0	89
16:00 - 16:15	37	15	6	0	6	11	1	5	1	5	1	1	89
16:15 - 16:30	33	19	3	0	0	11	2	14	0	5	3	0	90
16:30 - 16:45	35	13	3	0	1	15	0	8	1	3	4	0	83
16:45 - 17:00	43	18	4	1	0	14	0	9	0	2	2	0	93
17:00 - 17:15	33	13	12	0	1	16	1	6	0	2	3	1	88
17:15 - 17:30	35	13	6	0	0	16	1	10	1	3	3	0	88
17:30 - 17:45	22	12	2	1	1	12	1	16	1	2	1	1	72
17:45 - 18:00	24	20	7	1	7	11	1	12	0	4	4	0	91
Period Ending	379	171	67	14	25	162	20	93	8	38	31	4	1012

		NORTH	[EAST			SOUTH	[WEST		ĺ
	The	e Wool I	lane		Anson S	t	Н	lewitt Av	ve		Anson S	t	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 16:00	117	48	24	11	9	56	13	13	4	12	10	1	318
15:15 - 16:15	125	58	26	10	12	52	12	14	5	16	9	1	340
15:30 - 16:30	121	62	21	6	10	55	5	28	3	17	8	1	337
15:45 - 16:45	137	59	20	3	9	54	5	33	3	17	10	1	351
16:00 - 17:00	148	65	16	1	7	51	3	36	2	15	10	1	355
16:15 - 17:15	144	63	22	1	2	56	3	37	1	12	12	1	354
16:30 - 17:30	146	57	25	1	2	61	2	33	2	10	12	1	352
16:45 - 17:45	133	56	24	2	2	58	3	41	2	9	9	2	341
17:00 - 18:00	114	58	27	2	9	55	4	44	2	11	11	2	339

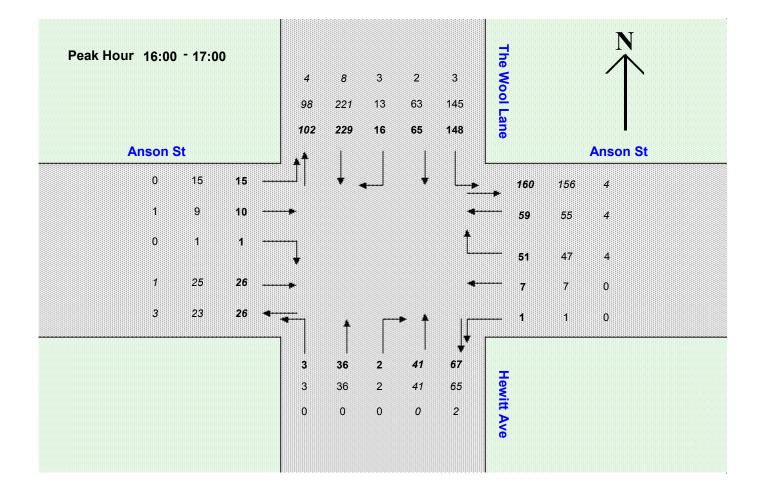
ABN 80 061 513 933

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Count Number	J11-96 Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL LANE / ANSO	N ST / HEWITT AVE	Suburb	ST GEORGES BASIN
Weather F	Fine	L	Job Number	

Comments

	The	e Wool I	lane		Anson S	t	Н	ewitt Av	ve	1	Anson S	t	
Vehicle Class	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
Lights	145	63	13	1	7	47	3	36	2	15	9	1	342
Heavy	3	2	3	0	0	4	0	0	0	0	1	0	13
Total	148	65	16	1	7	51	3	36	2	15	10	1	355



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Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-97	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL	RD / ISLAND POINT RD	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	
<u>.</u>				

Comments

Vehicle Movements <u>Lights</u>

		NORTH	[EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 7:15	0	0	0	8	63	1	13	4	19	0	8	7	123
7:15 - 7:30	0	0	0	5	68	0	11	0	24	0	15	6	129
7:30 - 7:45	0	0	0	9	68	0	14	0	17	1	19	4	132
7:45 - 8:00	0	0	0	8	84	0	14	0	27	1	31	6	171
8:00 - 8:15	0	0	0	14	70	0	20	0	18	1	30	4	157
8:15 - 8:30	0	0	0	15	43	0	11	0	10	0	33	7	119
8:30 - 8:45	0	0	0	12	59	0	20	0	11	0	30	13	145
8:45 - 9:00	0	0	0	28	46	0	28	0	19	0	28	16	165
Period Ending	0	0	0	99	501	1	131	4	145	3	194	63	1141

		NORTH	I		EAST			SOUTH	[WEST		[
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Point	t Rd	Isla	nd Poin	t Rd	<u> </u>
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 8:00	0	0	0	30	283	1	52	4	87	2	73	23	555
7:15 - 8:15	0	0	0	36	290	0	59	0	86	3	95	20	589
7:30 - 8:30	0	0	0	46	265	0	59	0	72	3	113	21	579
7:45 - 8:45	0	0	0	49	256	0	65	0	66	2	124	30	592
8:00 - 9:00	0	0	0	69	218	0	79	0	58	1	121	40	586

ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

	Count Number	J11-97	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
	Location	THE WOOL RD / I	SLAND	POINT RD	Suburb	ST GEORGES BASIN
	Weather	Fine			Job Number	
-						

Comments

<u>Heavy</u>

		NORTH	[EAST			SOUTH	[WEST		l
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 7:15	0	0	0	0	0	0	0	1	0	0	2	3	6
7:15 - 7:30	0	1	0	0	0	2	1	1	1	1	6	4	17
7:30 - 7:45	0	0	0	1	2	0	2	0	3	0	0	3	11
7:45 - 8:00	0	0	0	0	3	2	1	1	2	0	4	2	15
8:00 - 8:15	0	0	0	2	0	0	1	0	3	0	1	2	9
8:15 - 8:30	0	0	0	1	0	1	0	1	3	0	7	2	15
8:30 - 8:45	0	0	0	3	1	0	2	2	0	0	2	1	11
8:45 - 9:00	0	1	0	1	3	0	4	0	2	0	3	0	14
Period Ending	0	2	0	8	9	5	11	6	14	1	25	17	98

		NORTH	I		EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 8:00	0	1	0	1	5	4	4	3	6	1	12	12	49
7:15 - 8:15	0	1	0	3	5	4	5	2	9	1	11	11	52
7:30 - 8:30	0	0	0	4	5	3	4	2	11	0	12	9	50
7:45 - 8:45	0	0	0	6	4	3	4	4	8	0	14	7	50
8:00 - 9:00	0	1	0	7	4	1	7	3	8	0	13	5	49

ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-97	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / IS	SLAND	POINT RD	Suburb	ST GEORGES BASIN
Weather	Fine			Job Number	

Comments

Combined

		NORTH	[EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Point	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 7:15	0	0	0	8	63	1	13	5	19	0	10	10	129
7:15 - 7:30	0	1	0	5	68	2	12	1	25	1	21	10	146
7:30 - 7:45	0	0	0	10	70	0	16	0	20	1	19	7	143
7:45 - 8:00	0	0	0	8	87	2	15	1	29	1	35	8	186
8:00 - 8:15	0	0	0	16	70	0	21	0	21	1	31	6	166
8:15 - 8:30	0	0	0	16	43	1	11	1	13	0	40	9	134
8:30 - 8:45	0	0	0	15	60	0	22	2	11	0	32	14	156
8:45 - 9:00	0	1	0	29	49	0	32	0	21	0	31	16	179
Period Ending	0	2	0	107	510	6	142	10	159	4	219	80	1239

	-	NORTH	[EAST			SOUTH	[WEST		1
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
7:00 - 8:00	0	1	0	31	288	5	56	7	93	3	85	35	604
7:15 - 8:15	0	1	0	39	295	4	64	2	95	4	106	31	641
7:30 - 8:30	0	0	0	50	270	3	63	2	83	3	125	30	629
7:45 - 8:45	0	0	0	55	260	3	69	4	74	2	138	37	642
8:00 - 9:00	0	1	0	76	222	1	86	3	66	1	134	45	635

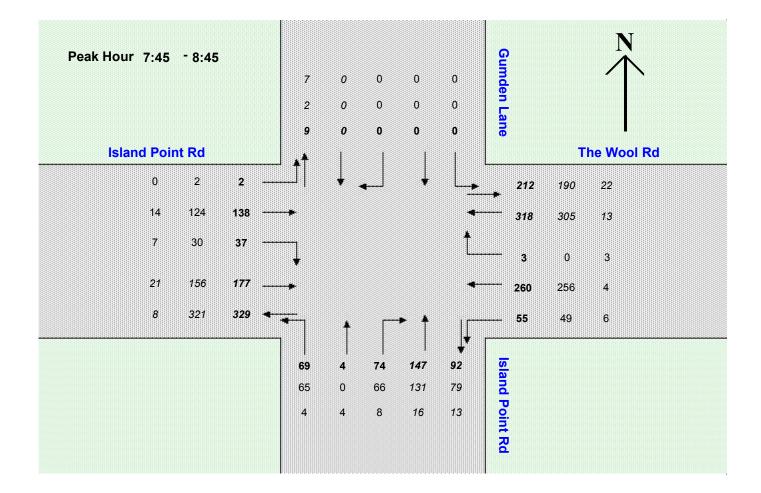
ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

	Count Number	J11-97	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
	Location	THE WOOL RD / I	SLAND	POINT RD	Suburb	ST GEORGES BASIN
	Weather	Fine			Job Number	
-						

Comments

	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Point	t Rd	Isla	nd Point	t Rd	
Vehicle Class	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
Lights	0	0	0	49	256	0	65	0	66	2	124	30	592
Heavy	0	0	0	6	4	3	4	4	8	0	14	7	50
Total	0	0	0	55	260	3	69	4	74	2	138	37	642



ABN 80 061 513 933

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Count Number	J11-97	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RE) / ISLAND POINT RD	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

Vehicle Movements <u>Lights</u>

		NORTH	[EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 15:15	0	1	0	15	35	0	8	1	16	0	52	10	138
15:15 - 15:30	1	1	1	13	39	1	14	2	27	0	46	18	163
15:30 - 15:45	2	1	1	19	42	1	22	0	14	0	58	14	174
15:45 - 16:00	0	0	1	29	60	1	12	0	22	0	92	26	243
16:00 - 16:15	1	0	0	11	31	1	7	0	33	0	57	20	161
16:15 - 16:30	2	0	0	17	27	0	6	0	12	1	60	22	147
16:30 - 16:45	0	0	0	24	39	1	7	0	20	0	85	25	201
16:45 - 17:00	3	0	0	15	20	1	15	0	24	0	97	27	202
17:00 - 17:15	0	1	0	13	34	0	8	1	22	0	66	17	162
17:15 - 17:30	1	0	0	17	34	2	9	0	20	0	65	16	164
17:30 - 17:45	0	0	0	19	23	1	7	0	7	0	56	8	121
17:45 - 18:00	2	0	0	14	28	0	6	0	16	0	54	8	128
Period Ending	12	4	3	206	412	9	121	4	233	1	788	211	2004

	-	NORTH	[EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Point	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 16:00	3	3	3	76	176	3	56	3	79	0	248	68	718
15:15 - 16:15	4	2	3	72	172	4	55	2	96	0	253	78	741
15:30 - 16:30	5	1	2	76	160	3	47	0	81	1	267	82	725
15:45 - 16:45	3	0	1	81	157	3	32	0	87	1	294	93	752
16:00 - 17:00	6	0	0	67	117	3	35	0	89	1	299	94	711
16:15 - 17:15	5	1	0	69	120	2	36	1	78	1	308	91	712
16:30 - 17:30	4	1	0	69	127	4	39	1	86	0	313	85	729
16:45 - 17:45	4	1	0	64	111	4	39	1	73	0	284	68	649
17:00 - 18:00	3	1	0	63	119	3	30	1	65	0	241	49	575

ABN 80 061 513 933

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	Count Number	J11-97	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
	Location	THE WOOL RD / I	SLAND	POINT RD	Suburb	ST GEORGES BASIN
	Weather	Fine			Job Number	
_						

Comments

<u>Heavy</u>

		NORTH	[EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 15:15	0	0	0	5	4	0	1	0	0	0	2	0	12
15:15 - 15:30	0	0	0	3	3	0	1	0	1	0	4	1	13
15:30 - 15:45	0	0	0	1	4	0	3	0	0	0	2	0	10
15:45 - 16:00	0	0	0	3	3	0	0	0	2	0	2	2	12
16:00 - 16:15	0	0	0	0	1	0	2	0	1	0	1	1	6
16:15 - 16:30	0	0	0	0	2	0	4	0	0	0	3	0	9
16:30 - 16:45	0	0	0	0	2	0	0	0	0	0	3	0	5
16:45 - 17:00	0	0	0	0	3	0	0	0	0	0	4	1	8
17:00 - 17:15	0	0	0	0	0	0	0	0	0	0	2	0	2
17:15 - 17:30	0	0	0	1	1	0	0	0	0	0	1	0	3
17:30 - 17:45	0	1	0	2	0	1	0	0	0	0	1	0	5
17:45 - 18:00	0	0	0	0	0	0	1	0	1	0	0	0	2
Period Ending	0	1	0	15	23	1	12	0	5	0	25	5	87

		NORTH			EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Point	t Rd	Isla	nd Point	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 16:00	0	0	0	12	14	0	5	0	3	0	10	3	47
15:15 - 16:15	0	0	0	7	11	0	6	0	4	0	9	4	41
15:30 - 16:30	0	0	0	4	10	0	9	0	3	0	8	3	37
15:45 - 16:45	0	0	0	3	8	0	6	0	3	0	9	3	32
16:00 - 17:00	0	0	0	0	8	0	6	0	1	0	11	2	28
16:15 - 17:15	0	0	0	0	7	0	4	0	0	0	12	1	24
16:30 - 17:30	0	0	0	1	6	0	0	0	0	0	10	1	18
16:45 - 17:45	0	1	0	3	4	1	0	0	0	0	8	1	18
17:00 - 18:00	0	1	0	3	1	1	1	0	1	0	4	0	12

ABN 80 061 513 933

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Count Number	J11-97	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / IS	LAND POINT RD	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

Combined

		NORTH	I		EAST			SOUTH	[WEST		
	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Poin	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 15:15	0	1	0	20	39	0	9	1	16	0	54	10	150
15:15 - 15:30	1	1	1	16	42	1	15	2	28	0	50	19	176
15:30 - 15:45	2	1	1	20	46	1	25	0	14	0	60	14	184
15:45 - 16:00	0	0	1	32	63	1	12	0	24	0	94	28	255
16:00 - 16:15	1	0	0	11	32	1	9	0	34	0	58	21	167
16:15 - 16:30	2	0	0	17	29	0	10	0	12	1	63	22	156
16:30 - 16:45	0	0	0	24	41	1	7	0	20	0	88	25	206
16:45 - 17:00	3	0	0	15	23	1	15	0	24	0	101	28	210
17:00 - 17:15	0	1	0	13	34	0	8	1	22	0	68	17	164
17:15 - 17:30	1	0	0	18	35	2	9	0	20	0	66	16	167
17:30 - 17:45	0	1	0	21	23	2	7	0	7	0	57	8	126
17:45 - 18:00	2	0	0	14	28	0	7	0	17	0	54	8	130
Period Ending	12	5	3	221	435	10	133	4	238	1	813	216	2091

		NORTH	[EAST			SOUTH	-		WEST		[
	Gu	ımden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Point	t Rd	
Time Period	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
15:00 - 16:00	3	3	3	88	190	3	61	3	82	0	258	71	765
15:15 - 16:15	4	2	3	79	183	4	61	2	100	0	262	82	782
15:30 - 16:30	5	1	2	80	170	3	56	0	84	1	275	85	762
15:45 - 16:45	3	0	1	84	165	3	38	0	90	1	303	96	784
16:00 - 17:00	6	0	0	67	125	3	41	0	90	1	310	96	739
16:15 - 17:15	5	1	0	69	127	2	40	1	78	1	320	92	736
16:30 - 17:30	4	1	0	70	133	4	39	1	86	0	323	86	747
16:45 - 17:45	4	2	0	67	115	5	39	1	73	0	292	69	667
17:00 - 18:00	3	2	0	66	120	4	31	1	66	0	245	49	587

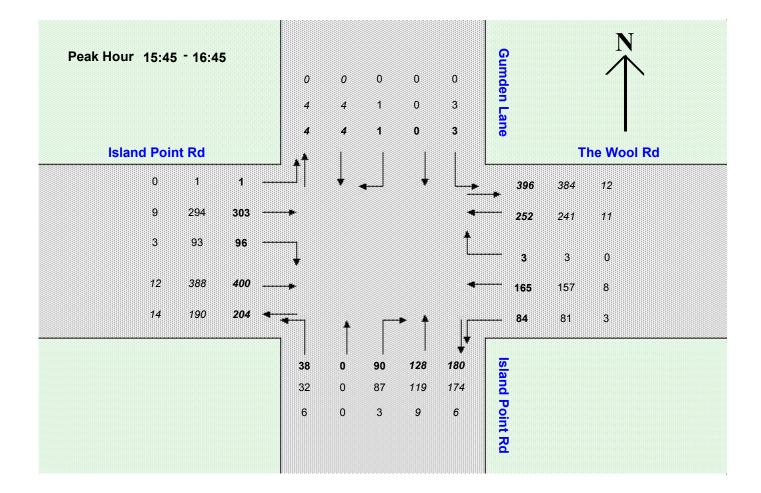
ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

	Count Number	J11-97	Client	TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
	Location	THE WOOL RD / I	SLAND	POINT RD	Suburb	ST GEORGES BASIN
	Weather	Fine			Job Number	
L						

Comments

	Gu	mden L	ane	Th	e Wool	Rd	Isla	nd Poin	t Rd	Isla	nd Point	t Rd	
Vehicle Class	L	Т	R	L	Т	R	L	Т	R	L	Т	R	Total
Lights	3	0	1	81	157	3	32	0	87	1	294	93	752
Heavy	0	0	0	3	8	0	6	0	3	0	9	3	32
Total	3	0	1	84	165	3	38	0	90	1	303	96	784



ABN 80 061 513 933

Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / T	HE WOOL LANE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

Vehicle Movements <u>Lights</u>

	EA	AST	SO	UTH	W	EST	
	The W	Vool Rd	The W	ool Lane	The W	ool Rd	
Time Period	L	Т	L	R	Т	R	Total
15:00 - 15:15	15	31	12	5	29	23	115
15:15 - 15:30	9	40	11	7	40	35	142
15:30 - 15:45	17	57	18	6	53	28	179
15:45 - 16:00	11	57	37	13	58	40	216
16:00 - 16:15	22	45	16	9	58	39	189
16:15 - 16:30	19	37	8	17	66	28	175
16:30 - 16:45	15	48	13	10	52	34	172
16:45 - 17:00	16	25	10	14	61	51	177
17:00 - 17:15	22	37	21	4	65	41	190
17:15 - 17:30	9	27	16	9	40	38	139
17:30 - 17:45	9	27	19	13	32	32	132
17:45 - 18:00	15	37	15	25	40	30	162
Period Ending	179	468	196	132	594	419	1988

	EA	ST	SOU	JTH	WE	EST]
	The Wool Rd		The Wool Lane		The Wool Rd		
Time Period	L	Т	L	R	Т	R	Total
15:00 - 16:00	52	185	78	31	180	126	652
15:15 - 16:15	59	199	82	35	209	142	726
15:30 - 16:30	69	196	79	45	235	135	759
15:45 - 16:45	67	187	74	49	234	141	752
16:00 - 17:00	72	155	47	50	237	152	713
16:15 - 17:15	72	147	52	45	244	154	714
16:30 - 17:30	62	137	60	37	218	164	678
16:45 - 17:45	56	116	66	40	198	162	638
17:00 - 18:00	55	128	71	51	177	141	623

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Count Number	J11-95	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL RD / TI	HE WOOL LANE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

<u>Heavy</u>

	EA	ST	SO	JTH	WI	EST	
	The W	ool Rd	The Wo	ool Lane	The W	ool Rd	
Time Period	L	Т	L	R	Т	R	Total
15:00 - 15:15	0	1	0	0	2	0	3
15:15 - 15:30	0	7	0	0	5	0	12
15:30 - 15:45	0	4	2	0	1	0	7
15:45 - 16:00	2	3	1	1	1	0	8
16:00 - 16:15	2	2	1	0	1	3	9
16:15 - 16:30	0	1	0	0	1	2	4
16:30 - 16:45	0	0	1	0	1	0	2
16:45 - 17:00	0	1	2	0	2	1	6
17:00 - 17:15	0	0	0	0	1	2	3
17:15 - 17:30	0	2	0	0	2	0	4
17:30 - 17:45	0	2	1	0	1	0	4
17:45 - 18:00	0	0	0	0	1	0	1
Period Ending	4	23	8	1	19	8	63

	EA	ST	SOL	UTH	WF	EST]
	The W	ool Rd	The Wo	ool Lane	The W	ool Rd	
Time Period	L	Т	L	R	Т	R	Total
15:00 - 16:00	2	15	3	1	9	0	30
15:15 - 16:15	4	16	4	1	8	3	36
15:30 - 16:30	4	10	4	1	4	5	28
15:45 - 16:45	4	6	3	1	4	5	23
16:00 - 17:00	2	4	4	0	5	6	21
16:15 - 17:15	0	2	3	0	5	5	15
16:30 - 17:30	0	3	3	0	6	3	15
16:45 - 17:45	0	5	3	0	6	3	17
17:00 - 18:00	0	4	1	0	5	2	12

ABN 80 061 513 933 Telephone and Fax : (02) 9624 5472

1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client TRAFFIC SOLU	JTIONS Count Date	Tuesday 10 May 2011
Location			Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

Combined

	EA	ST	SOU	JTH	WI	EST	
	The W	ool Rd	The Wo	ool Lane	The W	ool Rd	
Time Period	L	Т	L	R	Т	R	Total
15:00 - 15:15	15	32	12	5	31	23	118
15:15 - 15:30	9	47	11	7	45	35	154
15:30 - 15:45	17	61	20	6	54	28	186
15:45 - 16:00	13	60	38	14	59	40	224
16:00 - 16:15	24	47	17	9	59	42	198
16:15 - 16:30	19	38	8	17	67	30	179
16:30 - 16:45	15	48	14	10	53	34	174
16:45 - 17:00	16	26	12	14	63	52	183
17:00 - 17:15	22	37	21	4	66	43	193
17:15 - 17:30	9	29	16	9	42	38	143
17:30 - 17:45	9	29	20	13	33	32	136
17:45 - 18:00	15	37	15	25	41	30	163
Period Ending	183	491	204	133	613	427	2051

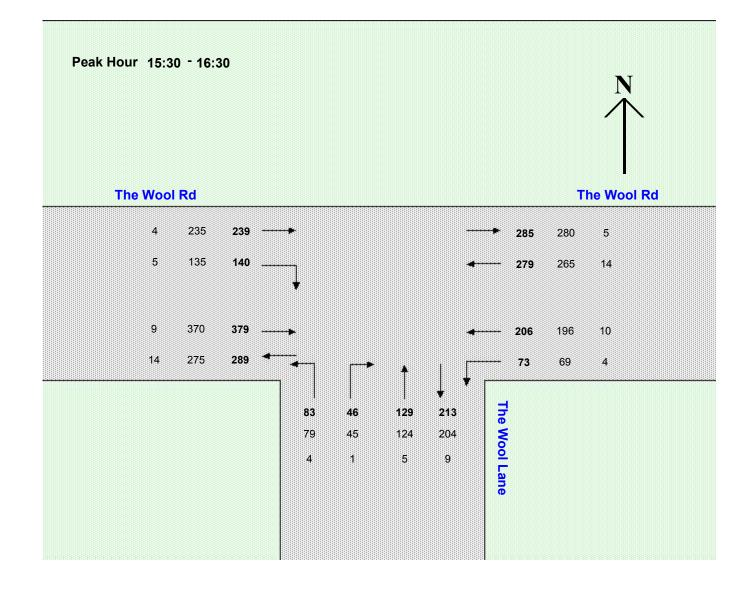
	EA	AST	SOU	JTH	WI	EST]
	The W	ool Rd	The Wo	ool Lane	The W	ool Rd	
Time Period	L	Т	L	R	Т	R	Total
15:00 - 16:00	54	200	81	32	189	126	682
15:15 - 16:15	63	215	86	36	217	145	762
15:30 - 16:30	73	206	83	46	239	140	787
15:45 - 16:45	71	193	77	50	238	146	775
16:00 - 17:00	74	159	51	50	242	158	734
16:15 - 17:15	72	149	55	45	249	159	729
16:30 - 17:30	62	140	63	37	224	167	693
16:45 - 17:45	56	121	69	40	204	165	655
17:00 - 18:00	55	132	72	51	182	143	635

ABN 80 061 513 933 Telephone and Fax : (02) 9624 5472 1 Ajax Place Blacktown, NSW 2148

Count Number	J11-95	Client TRAFFIC SOLUTIONS	Count Date	Tuesday 10 May 2011
Location	THE WOOL	RD / THE WOOL LANE	Suburb	ST GEORGES BASIN
Weather	Fine		Job Number	

Comments

	The Wool Rd		The Wo	The Wool Lane		The Wool Rd	
VEHICLES	L	Т	L	R	Т	R	Total
Lights	69	196	79	45	235	135	759
Heavy	4	10	4	1	4	5	28
Total	73	206	83	46	239	140	787

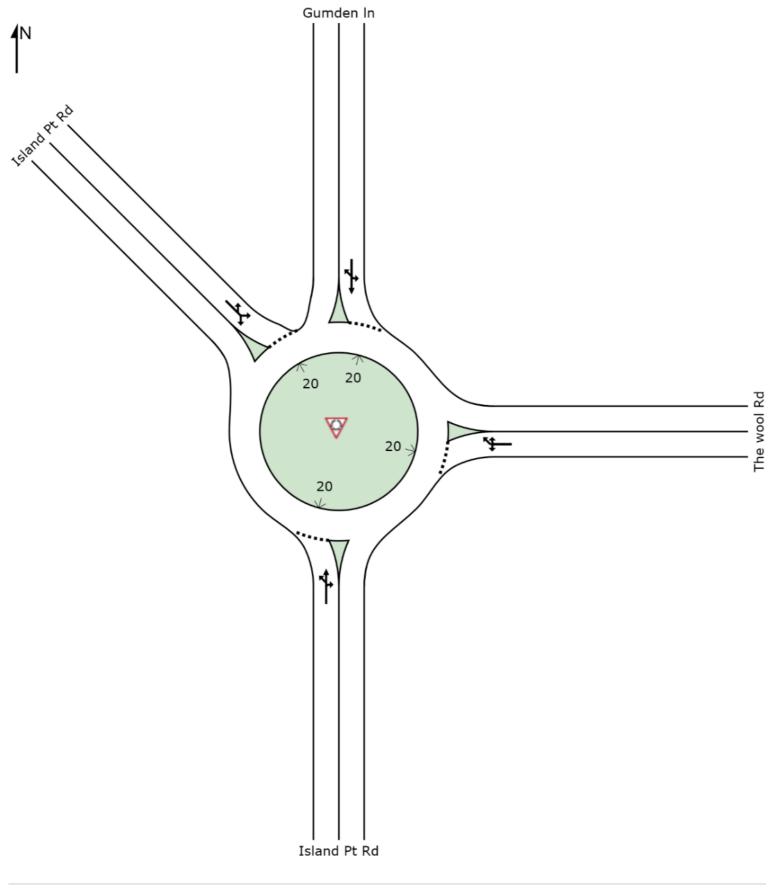


APPENDIX C SIDRA RESULTS

SITE LAYOUT

₩ Site: Island and Wool AM 2011 + 35%

Island Pt Rd and The Wool Road Roundabout Roundabout





₩ Site: Island and Wool AM 2011 + 35%

Island Pt Rd and The Wool Road Roundabout Roundabout

Movement Performance - Vehicles												
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average	
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed	
South	Island Pt F	veh/h	%	v/c	sec		veh	m		per veh	km/h	
1a	L1	98	0.0	0.192	5.0	LOS A	0.9	6.2	0.44	0.65	53.2	
2	 T1	5	0.0	0.192	5.4	LOSA	0.9	6.2	0.44	0.65	53.6	
3	R2	105	0.0	0.192	10.1	LOS A	0.9	6.2	0.44	0.65	53.5	
Appro	ach	208	0.0	0.192	7.6	LOS A	0.9	6.2	0.44	0.65	53.4	
East:	The wool Re	d										
4	L2	78	0.0	0.306	4.1	LOS A	1.6	11.0	0.17	0.58	52.5	
6a	R1	369	0.0	0.306	7.8	LOS A	1.6	11.0	0.17	0.58	53.2	
6	R2	4	0.0	0.306	8.8	LOS A	1.6	11.0	0.17	0.58	53.7	
Approa	ach	452	0.0	0.306	7.2	LOS A	1.6	11.0	0.17	0.58	53.1	
North:	Gumden In	I										
7	L2	1	0.0	0.003	5.0	LOS A	0.0	0.1	0.38	0.53	52.8	
8	T1	1	0.0	0.003	5.0	LOS A	0.0	0.1	0.38	0.53	54.0	
9b	R3	1	0.0	0.003	10.7	LOS A	0.0	0.1	0.38	0.53	54.4	
Appro	ach	3	0.0	0.003	6.9	LOS A	0.0	0.1	0.38	0.53	53.7	
North	Vest: Island	l Pt Rd										
27b	L3	3	0.0	0.192	4.7	LOS A	0.9	6.4	0.25	0.49	53.8	
27a	L1	196	0.0	0.192	4.0	LOS A	0.9	6.4	0.25	0.49	55.1	
29a	R1	53	0.0	0.192	8.0	LOS A	0.9	6.4	0.25	0.49	54.9	
Approa	ach	252	0.0	0.192	4.8	LOS A	0.9	6.4	0.25	0.49	55.0	
All Vel	nicles	915	0.0	0.306	6.6	LOS A	1.6	11.0	0.26	0.57	53.7	

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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8000870, 6016543, TRAFFIC SOLUTIONS PTY LTD, PLUS / 1PC

₩ Site: Island and Wool PM 2011 + 35%

Island Pt Rd and The Wool Road Roundabout Roundabout

Move	ment Perfe	ormance - V	ehicles								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	Island Pt R	veh/h	%	v/c	sec		veh	m		per veh	km/h
			0.0	0 4 5 7			0.7	4.0	0.05	0.00	50.0
1a	L1	54	0.0	0.157	4.4	LOS A	0.7	4.9	0.35	0.63	52.8
2	T1	1	0.0	0.157	4.8	LOS A	0.7	4.9	0.35	0.63	53.2
3	R2	128	0.0	0.157	9.5	LOS A	0.7	4.9	0.35	0.63	53.1
Appro	ach	183	0.0	0.157	8.0	LOS A	0.7	4.9	0.35	0.63	53.0
East:	The wool Ro	ł									
4	L2	119	0.0	0.276	4.5	LOS A	1.4	9.7	0.30	0.59	52.6
6a	R1	235	0.0	0.276	8.1	LOS A	1.4	9.7	0.30	0.59	53.3
6	R2	4	0.0	0.276	9.1	LOS A	1.4	9.7	0.30	0.59	53.7
Appro	ach	358	0.0	0.276	6.9	LOS A	1.4	9.7	0.30	0.59	53.1
North:	Gumden In										
7	L2	2	0.0	0.009	6.6	LOS A	0.0	0.3	0.58	0.63	50.9
8	T1	1	0.0	0.009	6.6	LOS A	0.0	0.3	0.58	0.63	52.1
9b	R3	4	0.0	0.009	12.3	LOS A	0.0	0.3	0.58	0.63	52.4
Appro	ach	7	0.0	0.009	9.9	LOS A	0.0	0.3	0.58	0.63	51.9
North\	Vest: Island	Pt Rd									
27b	L3	2	0.0	0.424	4.9	LOS A	2.6	17.9	0.34	0.52	53.4
27a	L1	431	0.0	0.424	4.2	LOS A	2.6	17.9	0.34	0.52	54.7
29a	R1	137	0.0	0.424	8.2	LOS A	2.6	17.9	0.34	0.52	54.5
Appro	ach	569	0.0	0.424	5.1	LOS A	2.6	17.9	0.34	0.52	54.6
All Vel	nicles	1118	0.0	0.424	6.2	LOS A	2.6	17.9	0.33	0.56	53.8

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Site: Island and Wool AM 2011 + 35% + Masterplan

Island Pt Rd and The Wool Road Roundabout Roundabout

Move	ment P <u>erf</u>	ormance - V	ehicles								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
Ocutha	Lalawal Dt D	veh/h	%	v/c	sec		veh	m		per veh	km/h
	Island Pt F										
1a	L1	175	0.0	0.298	5.2	LOS A	1.5	10.6	0.48	0.67	53.3
2	T1	5	0.0	0.298	5.5	LOS A	1.5	10.6	0.48	0.67	53.6
3	R2	143	0.0	0.298	10.2	LOS A	1.5	10.6	0.48	0.67	53.5
Appro	ach	323	0.0	0.298	7.4	LOS A	1.5	10.6	0.48	0.67	53.4
East:	The wool Ro	d									
4	L2	78	0.0	0.310	4.1	LOS A	1.6	11.4	0.19	0.58	52.5
6a	R1	369	0.0	0.310	7.8	LOS A	1.6	11.4	0.19	0.58	53.2
6	R2	4	0.0	0.310	8.8	LOS A	1.6	11.4	0.19	0.58	53.6
Approach 452		452	0.0	0.310	7.2	LOS A	1.6	11.4	0.19	0.58	53.1
North:	Gumden In	1									
7	L2	1	0.0	0.003	5.1	LOS A	0.0	0.1	0.40	0.54	52.7
8	T1	1	0.0	0.003	5.1	LOS A	0.0	0.1	0.40	0.54	53.9
9b	R3	1	0.0	0.003	10.8	LOS A	0.0	0.1	0.40	0.54	54.3
Appro	ach	3	0.0	0.003	7.0	LOS A	0.0	0.1	0.40	0.54	53.6
North\	West: Island	l Pt Rd									
27b	L3	3	0.0	0.206	4.8	LOS A	1.0	7.0	0.30	0.51	53.5
27a	L1	196	0.0	0.206	4.1	LOS A	1.0	7.0	0.30	0.51	54.8
29a	R1	59	0.0	0.206	8.1	LOS A	1.0	7.0	0.30	0.51	54.6
Appro	ach	258	0.0	0.206	5.0	LOS A	1.0	7.0	0.30	0.51	54.8
All Vel	nicles	1036	0.0	0.310	6.7	LOS A	1.6	11.4	0.31	0.59	53.6

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Site: Island and Wool PM 2011 + 35% + Masterplan

Island Pt Rd and The Wool Road Roundabout Roundabout

	ment Perfo	rmance - V	ehicles								
Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total	ΗV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
	Island Pt Ro										
1a	L1	63	0.0	0.166	4.4	LOS A	0.8	5.4	0.37	0.63	52.9
2	T1	1	0.0	0.166	4.8	LOS A	0.8	5.4	0.37	0.63	53.3
3	R2	128	0.0	0.166	9.5	LOS A	0.8	5.4	0.37	0.63	53.2
Approa	ach	193	0.0	0.166	7.8	LOS A	0.8	5.4	0.37	0.63	53.1
East: T	he wool Rd										
4	L2	119	0.0	0.297	4.8	LOS A	1.5	10.8	0.38	0.63	52.3
6a	R1	235	0.0	0.297	8.5	LOS A	1.5	10.8	0.38	0.63	53.0
6	R2	4	0.0	0.297	9.5	LOS A	1.5	10.8	0.38	0.63	53.5
Approa	ach	358	0.0	0.297	7.3	LOS A	1.5	10.8	0.38	0.63	52.8
North:	Gumden In										
7	L2	2	0.0	0.009	7.2	LOS A	0.0	0.3	0.63	0.64	50.6
8	T1	1	0.0	0.009	7.2	LOS A	0.0	0.3	0.63	0.64	51.7
9b	R3	4	0.0	0.009	12.9	LOS A	0.0	0.3	0.63	0.64	52.0
Approa	ach	7	0.0	0.009	10.4	LOS A	0.0	0.3	0.63	0.64	51.6
NorthV	Vest: Island I	Pt Rd									
27b	L3	2	0.0	0.478	4.9	LOS A	3.1	21.7	0.36	0.54	53.1
27a	L1	431	0.0	0.478	4.2	LOS A	3.1	21.7	0.36	0.54	54.3
29a	R1	213	0.0	0.478	8.2	LOS A	3.1	21.7	0.36	0.54	54.2
Approa	ach	645	0.0	0.478	5.5	LOS A	3.1	21.7	0.36	0.54	54.3
All Veh	icles	1203	0.0	0.478	6.4	LOS A	3.1	21.7	0.37	0.58	53.6

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

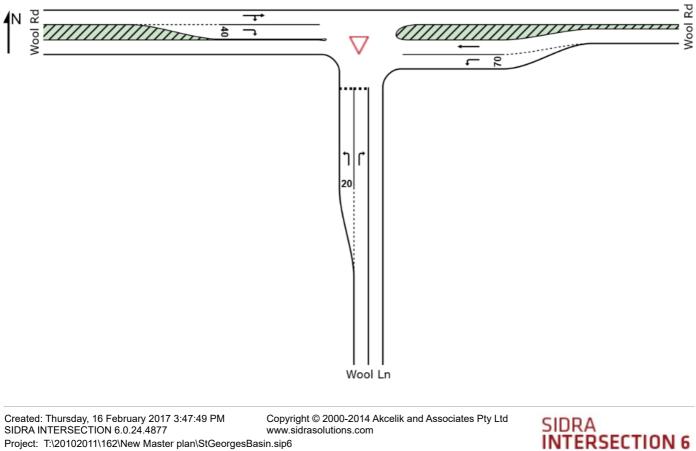
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SITE LAYOUT

∇ Site: Wool and Wool AM 2011 + 35%

Wool road and Wool Lane Three-way intersection with 2-lane major road (Give-Way control) Giveway / Yield (Two-Way)



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∇ Site: Wool and Wool AM 2011 + 35%

Wool road and Wool Lane

Three-way intersection with 2-lane major road (Give-Way control) Giveway / Yield (Two-Way)

Mover	nent Perf	ormance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back o Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Wool Ln										
1	L2	167	0.0	0.136	5.5	LOS A	0.6	4.0	0.39	0.56	53.7
3	R2	98	0.0	0.138	7.9	LOS A	0.5	3.5	0.53	0.76	51.5
Approa	ach	265	0.0	0.138	6.4	LOS A	0.6	4.0	0.44	0.63	52.9
East: V	Vool Rd										
4	L2	49	0.0	0.027	6.9	LOS A	0.0	0.0	0.00	0.63	65.4
5	T1	295	0.0	0.151	0.0	LOS A	0.0	0.0	0.00	0.00	79.9
Approa	ach	344	0.0	0.151	1.0	NA	0.0	0.0	0.00	0.09	77.5
West: \	Nool Rd										
11	T1	245	0.0	0.126	0.0	LOS A	0.0	0.0	0.00	0.00	80.0
12	R2	57	0.0	0.043	7.9	LOS A	0.2	1.3	0.41	0.63	53.2
Approa	ach	302	0.0	0.126	1.5	NA	0.2	1.3	0.08	0.12	73.1
All Veh	icles	912	0.0	0.151	2.7	NA	0.6	4.0	0.15	0.26	67.0

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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∇ Site: Wool and Wool PM 2011 + 35%

Wool road and Wool Lane

Three-way intersection with 2-lane major road (Give-Way control) Giveway / Yield (Two-Way)

Mover	nent Perf	ormance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back o Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Wool Ln										
1	L2	118	0.0	0.098	5.6	LOS A	0.4	2.8	0.40	0.56	53.7
3	R2	65	0.0	0.124	10.0	LOS A	0.4	3.0	0.64	0.83	50.0
Approa	ich	183	0.0	0.124	7.2	LOS A	0.4	3.0	0.48	0.66	52.3
East: V	Vool Rd										
4	L2	103	0.0	0.056	6.9	LOS A	0.0	0.0	0.00	0.63	65.4
5	T1	293	0.0	0.150	0.0	LOS A	0.0	0.0	0.00	0.00	79.9
Approa	ich	396	0.0	0.150	1.8	NA	0.0	0.0	0.00	0.16	75.6
West: \	Nool Rd										
11	T1	340	0.0	0.174	0.0	LOS A	0.0	0.0	0.00	0.00	79.9
12	R2	199	0.0	0.160	8.3	LOS A	0.7	5.2	0.47	0.69	53.1
Approa	ich	539	0.0	0.174	3.1	NA	0.7	5.2	0.17	0.25	67.3
All Veh	icles	1118	0.0	0.174	3.3	NA	0.7	5.2	0.16	0.29	66.7

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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V Site: Wool and Wool AM 2011 + 35% + Masterplan

Wool road and Wool Lane

Three-way intersection with 2-lane major road (Give-Way control) Giveway / Yield (Two-Way)

Move	nent Perfo	ormance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back o Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Wool Ln										
1	L2	202	0.0	0.165	5.6	LOS A	0.7	4.9	0.40	0.57	53.6
3	R2	147	0.0	0.208	8.1	LOS A	0.8	5.5	0.55	0.79	51.4
Approa	ach	349	0.0	0.208	6.7	LOS A	0.8	5.5	0.47	0.66	52.7
East: V	Vool Rd										
4	L2	55	0.0	0.029	6.9	LOS A	0.0	0.0	0.00	0.63	65.4
5	T1	295	0.0	0.151	0.0	LOS A	0.0	0.0	0.00	0.00	79.9
Approa	ach	349	0.0	0.151	1.1	NA	0.0	0.0	0.00	0.10	77.3
West: V	Nool Rd										
11	T1	245	0.0	0.126	0.0	LOS A	0.0	0.0	0.00	0.00	80.0
12	R2	57	0.0	0.044	8.0	LOS A	0.2	1.3	0.41	0.63	53.2
Approa	ach	302	0.0	0.126	1.5	NA	0.2	1.3	0.08	0.12	73.1
All Veh	icles	1001	0.0	0.208	3.2	NA	0.8	5.5	0.19	0.30	65.4

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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SIDRA INTERSECTION 6

✓ Site: Wool and Wool PM 2011 + 35% + Masterplan

Wool road and Wool Lane

Three-way intersection with 2-lane major road (Give-Way control) Giveway / Yield (Two-Way)

Move	nent Perfo	ormance - V	ehicles								
Mov ID	OD Mov	Demand Total veh/h	Flows HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back o Vehicles veh	of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South:	Wool Ln										
1	L2	118	0.0	0.100	5.7	LOS A	0.4	2.8	0.41	0.57	53.6
3	R2	71	0.0	0.137	10.2	LOS A	0.5	3.3	0.65	0.84	49.9
Approa	ach	188	0.0	0.137	7.4	LOS A	0.5	3.3	0.50	0.67	52.2
East: V	Vool Rd										
4	L2	134	0.0	0.072	7.0	LOS A	0.0	0.0	0.00	0.63	65.4
5	T1	293	0.0	0.150	0.0	LOS A	0.0	0.0	0.00	0.00	79.9
Approa	ach	426	0.0	0.150	2.2	NA	0.0	0.0	0.00	0.20	74.7
West: V	Nool Rd										
11	T1	340	0.0	0.174	0.0	LOS A	0.0	0.0	0.00	0.00	79.9
12	R2	199	0.0	0.165	8.5	LOS A	0.8	5.3	0.49	0.70	53.0
Approa	ach	539	0.0	0.174	3.1	NA	0.8	5.3	0.18	0.26	67.3
All Veh	icles	1154	0.0	0.174	3.5	NA	0.8	5.3	0.16	0.30	66.6

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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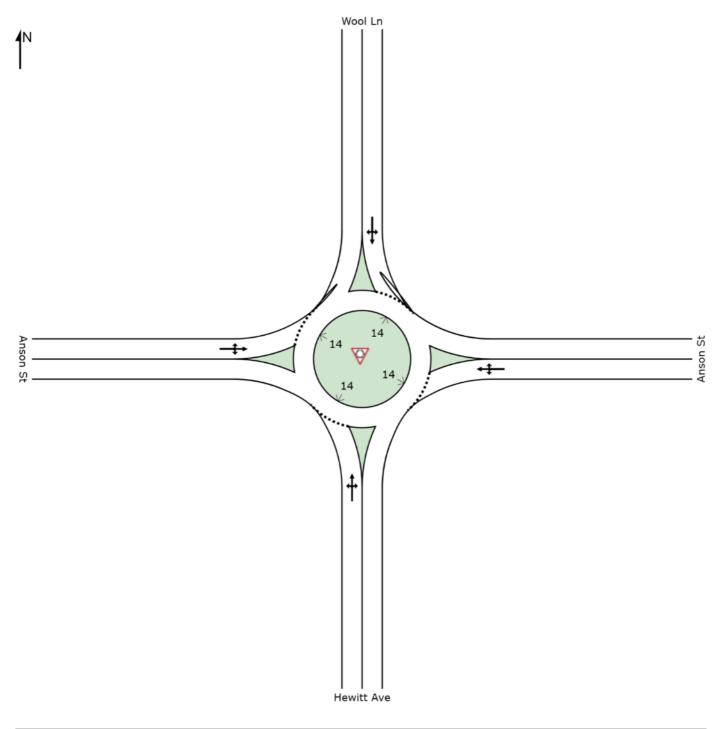


SITE LAYOUT

₩ Site: AnsonWool AM 2011 + 35%

Wool Lane and Anson Street Roundabout with 1 circulating road

Roundabout



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W Site: AnsonWool AM 2011 + 35%

Wool Lane and Anson Street Roundabout with 1 circulating road

Roundabout

Mov <u>e</u> r	nent Perf	ormance - V	/ehicle <u>s</u>								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	Hewitt Ave	veh/h	%	v/c	sec		veh	m		per veh	km/h
			0.0	0.005		1004	0.4	0.7	0.04	0.40	40.4
1	L2	17	0.0	0.095	4.1	LOS A	0.4	2.7	0.31	0.48	46.4
2	T1	86	0.0	0.095	4.0	LOS A	0.4	2.7	0.31	0.48	47.3
3	R2	7	0.0	0.095	7.8	LOS A	0.4	2.7	0.31	0.48	47.3
Approa	ach	111	0.0	0.095	4.3	LOS A	0.4	2.7	0.31	0.48	47.2
East: A	nson St										
4	L2	3	0.0	0.155	3.5	LOS A	0.6	4.4	0.14	0.58	45.3
5	T1	23	0.0	0.155	3.4	LOS A	0.6	4.4	0.14	0.58	46.1
6	R2	189	0.0	0.155	7.2	LOS A	0.6	4.4	0.14	0.58	46.1
Approa	ach	216	0.0	0.155	6.7	LOS A	0.6	4.4	0.14	0.58	46.1
North:	Wool Ln										
7	L2	57	0.0	0.073	3.4	LOS A	0.3	2.0	0.07	0.45	47.0
8	T1	38	0.0	0.073	3.3	LOS A	0.3	2.0	0.07	0.45	47.9
9	R2	13	0.0	0.073	7.1	LOS A	0.3	2.0	0.07	0.45	47.9
Approa	ach	107	0.0	0.073	3.8	LOS A	0.3	2.0	0.07	0.45	47.4
West: A	Anson St										
10	L2	36	0.0	0.040	4.3	LOS A	0.2	1.1	0.34	0.52	46.5
11	T1	6	0.0	0.040	4.2	LOS A	0.2	1.1	0.34	0.52	47.4
12	R2	3	0.0	0.040	8.0	LOS A	0.2	1.1	0.34	0.52	47.3
Approa	ich	45	0.0	0.040	4.5	LOS A	0.2	1.1	0.34	0.52	46.6
All Veh	icles	479	0.0	0.155	5.3	LOS A	0.6	4.4	0.18	0.52	46.7

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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W Site: AnsonWool PM 2011 + 35%

Wool Lane and Anson Street Roundabout with 1 circulating road

Roundabout

Move	ment Perf	ormance - V	ehicle <u>s</u>								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	Hewitt Ave	veh/h	%	v/c	sec		veh	m		per veh	km/h
			0.0	0.040	0.7		0.0	4.0	0.00	0.40	40.7
1	L2	4	0.0	0.048	3.7	LOS A	0.2	1.3	0.20	0.42	46.7
2	T1	52	0.0	0.048	3.5	LOS A	0.2	1.3	0.20	0.42	47.6
3	R2	3	0.0	0.048	7.3	LOS A	0.2	1.3	0.20	0.42	47.6
Approa	ach	59	0.0	0.048	3.7	LOS A	0.2	1.3	0.20	0.42	47.5
East: A	Anson St										
4	L2	2	0.0	0.069	3.8	LOS A	0.3	1.8	0.21	0.59	45.1
5	T1	9	0.0	0.069	3.6	LOS A	0.3	1.8	0.21	0.59	45.9
6	R2	73	0.0	0.069	7.4	LOS A	0.3	1.8	0.21	0.59	45.9
Approa	ach	84	0.0	0.069	6.9	LOS A	0.3	1.8	0.21	0.59	45.9
North:	Wool Ln										
7	L2	209	0.0	0.212	3.4	LOS A	1.0	6.7	0.08	0.45	47.0
8	T1	93	0.0	0.212	3.2	LOS A	1.0	6.7	0.08	0.45	47.9
9	R2	23	0.0	0.212	7.0	LOS A	1.0	6.7	0.08	0.45	47.8
Approa	ach	325	0.0	0.212	3.6	LOS A	1.0	6.7	0.08	0.45	47.3
West:	Anson St										
10	L2	21	0.0	0.030	3.8	LOS A	0.1	0.8	0.22	0.45	46.7
11	T1	14	0.0	0.030	3.6	LOS A	0.1	0.8	0.22	0.45	47.6
12	R2	2	0.0	0.030	7.4	LOS A	0.1	0.8	0.22	0.45	47.5
Approa	ach	37	0.0	0.030	3.9	LOS A	0.1	0.8	0.22	0.45	47.1
All Ver	nicles	505	0.0	0.212	4.2	LOS A	1.0	6.7	0.13	0.47	47.1

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: AnsonWool AM 2011 + 35% + Masterplan

Wool Lane and Anson Street Roundabout with 1 circulating road

Roundabout

Move	ment Perfe	ormance - V	ehicle <u>s</u>								
Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South	: Hewitt Ave	veh/h	%	v/c	sec		veh	m		per veh	km/h
			0.0	0.400	4.0	100.4	0.4		0.00	0.40	40.4
1	L2	22	0.0	0.102	4.2	LOS A	0.4	2.9	0.33	0.49	46.4
2	T1	86	0.0	0.102	4.0	LOS A	0.4	2.9	0.33	0.49	47.2
3	R2	7	0.0	0.102	7.8	LOS A	0.4	2.9	0.33	0.49	47.2
Approa	ach	116	0.0	0.102	4.3	LOS A	0.4	2.9	0.33	0.49	47.1
East: A	Anson St										
4	L2	3	0.0	0.165	3.6	LOS A	0.7	4.8	0.16	0.58	45.3
5	T1	31	0.0	0.165	3.4	LOS A	0.7	4.8	0.16	0.58	46.1
6	R2	189	0.0	0.165	7.2	LOS A	0.7	4.8	0.16	0.58	46.0
Approa	ach	223	0.0	0.165	6.6	LOS A	0.7	4.8	0.16	0.58	46.0
North:	Wool Ln										
7	L2	57	0.0	0.082	3.5	LOS A	0.3	2.4	0.11	0.46	46.7
8	T1	38	0.0	0.082	3.3	LOS A	0.3	2.4	0.11	0.46	47.6
9	R2	18	0.0	0.082	7.1	LOS A	0.3	2.4	0.11	0.46	47.6
Approa	ach	113	0.0	0.082	4.0	LOS A	0.3	2.4	0.11	0.46	47.2
West:	Anson St										
10	L2	109	0.0	0.125	4.4	LOS A	0.5	3.6	0.36	0.55	46.4
11	T1	19	0.0	0.125	4.2	LOS A	0.5	3.6	0.36	0.55	47.2
12	R2	9	0.0	0.125	8.0	LOS A	0.5	3.6	0.36	0.55	47.2
Approa	ach	138	0.0	0.125	4.7	LOS A	0.5	3.6	0.36	0.55	46.5
All Vel	nicles	589	0.0	0.165	5.2	LOS A	0.7	4.8	0.23	0.53	46.6

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Wool Lane and Anson Street Roundabout with 1 circulating road

Roundabout

Move	ment Perfo	ormance - V	ehicle <u>s</u>								
Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
Ocutto		veh/h	%	v/c	sec		veh	m		per veh	km/h
	Hewitt Ave	_									
1	L2	9	0.0	0.053	3.9	LOS A	0.2	1.4	0.24	0.44	46.6
2	T1	52	0.0	0.053	3.7	LOS A	0.2	1.4	0.24	0.44	47.5
3	R2	3	0.0	0.053	7.5	LOS A	0.2	1.4	0.24	0.44	47.4
Appro	ach	64	0.0	0.053	3.9	LOS A	0.2	1.4	0.24	0.44	47.4
East: /	Anson St										
4	L2	2	0.0	0.080	3.9	LOS A	0.3	2.2	0.25	0.58	45.3
5	T1	21	0.0	0.080	3.7	LOS A	0.3	2.2	0.25	0.58	46.1
6	R2	73	0.0	0.080	7.5	LOS A	0.3	2.2	0.25	0.58	46.0
Appro	ach	96	0.0	0.080	6.6	LOS A	0.3	2.2	0.25	0.58	46.0
North:	Wool Ln										
7	L2	209	0.0	0.234	3.4	LOS A	1.1	7.6	0.10	0.47	46.8
8	T1	93	0.0	0.234	3.3	LOS A	1.1	7.6	0.10	0.47	47.7
9	R2	54	0.0	0.234	7.1	LOS A	1.1	7.6	0.10	0.47	47.6
Appro	ach	356	0.0	0.234	3.9	LOS A	1.1	7.6	0.10	0.47	47.2
West:	Anson St										
10	L2	26	0.0	0.038	3.8	LOS A	0.1	1.0	0.22	0.46	46.7
11	T1	17	0.0	0.038	3.6	LOS A	0.1	1.0	0.22	0.46	47.5
12	R2	3	0.0	0.038	7.4	LOS A	0.1	1.0	0.22	0.46	47.5
Appro	ach	46	0.0	0.038	4.0	LOS A	0.1	1.0	0.22	0.46	47.0
All Vel	nicles	562	0.0	0.234	4.4	LOS A	1.1	7.6	0.15	0.48	47.0

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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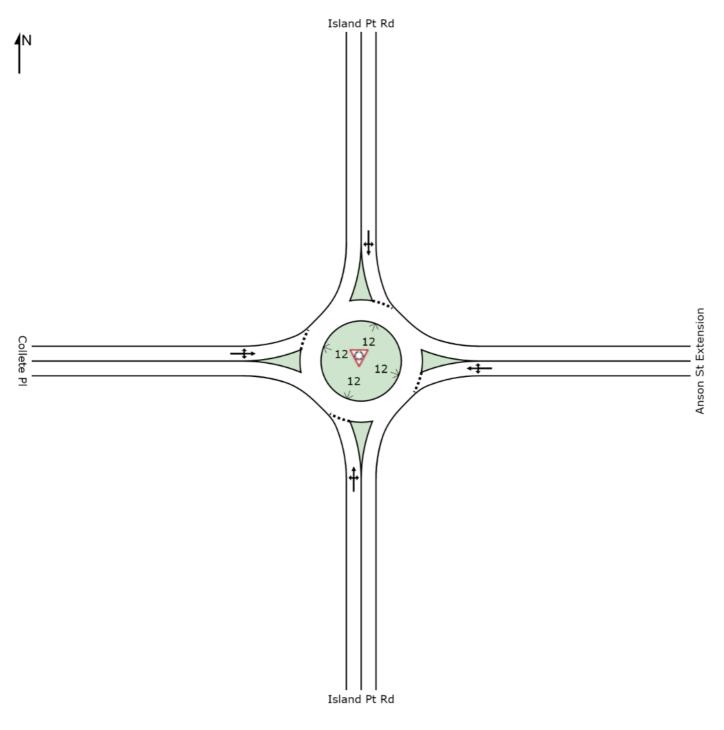


SITE LAYOUT

V Site: AnsonIsland AM 2011 + 35%

Anson St and Island Pt Rd Roundabout with 1-lane approaches and circulating road

Roundabout



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Site: AnsonIsland PM 2011 + 35%

Anson St and Island Pt Rd Roundabout with 1-lane approaches and circulating road

Roundabout

Moven	nent Perf	ormance - V	ehicle <u>s</u>								
Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
Coutbu	Island Pt R	veh/h	%	v/c	sec		veh	m		per veh	km/h
				0.440					0.40	0.40	
1	L2	2	0.0	0.110	3.7	LOS A	0.6	4.5	0.16	0.40	46.8
2	T1	143	0.0	0.110	3.6	LOS A	0.6	4.5	0.16	0.40	47.5
3	R2	4	0.0	0.110	7.1	LOS A	0.6	4.5	0.16	0.40	47.4
Approa	ich	149	0.0	0.110	3.7	LOS A	0.6	4.5	0.16	0.40	47.5
East: A	nson St Ex	tension									
4	L2	3	0.0	0.027	4.5	LOS A	0.1	1.0	0.36	0.58	44.9
5	T1	2	0.0	0.027	4.4	LOS A	0.1	1.0	0.36	0.58	45.6
6	R2	24	0.0	0.027	7.9	LOS A	0.1	1.0	0.36	0.58	45.5
Approa	ich	29	0.0	0.027	7.3	LOS A	0.1	1.0	0.36	0.58	45.4
North: I	Island Pt R	d									
7	L2	60	0.0	0.154	3.5	LOS A	0.9	6.4	0.07	0.42	47.0
8	T1	172	0.0	0.154	3.4	LOS A	0.9	6.4	0.07	0.42	47.8
9	R2	11	0.0	0.154	6.9	LOS A	0.9	6.4	0.07	0.42	47.6
Approa	ich	242	0.0	0.154	3.6	LOS A	0.9	6.4	0.07	0.42	47.6
West: C	Collete PI										
10	L2	3	0.0	0.007	4.4	LOS A	0.0	0.2	0.35	0.49	45.9
11	T1	2	0.0	0.007	4.3	LOS A	0.0	0.2	0.35	0.49	46.6
12	R2	2	0.0	0.007	7.8	LOS A	0.0	0.2	0.35	0.49	46.5
Approa	ich	7	0.0	0.007	5.3	LOS A	0.0	0.2	0.35	0.49	46.3
All Vehi	icles	428	0.0	0.154	3.9	LOS A	0.9	6.4	0.13	0.43	47.4

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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𝒞 Site: AnsonIsland AM 2011 + 35%

Anson St and Island Pt Rd Roundabout with 1-lane approaches and circulating road

Roundabout

Move	ment Perf	ormance - V	ehicles								
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South: Island Pt Rd		veh/h	%	v/c	sec		veh	m		per veh	km/h
1 L2			0.0	0.407	2.0		0.0	4.0	0.00	0.40	40.5
		2	0.0	0.107	3.8	LOS A	0.6	4.3	0.22	0.42	46.5
2	T1	126	0.0	0.107	3.7	LOS A	0.6	4.3	0.22	0.42	47.3
3	R2	8	0.0	0.107	7.2	LOS A	0.6	4.3	0.22	0.42	47.2
Approach		137	0.0	0.107	3.9	LOS A	0.6	4.3	0.22	0.42	47.3
East: A	Anson St Ex	tension									
4	L2	2	0.0	0.051	4.0	LOS A	0.3	1.9	0.27	0.58	44.9
5	T1	2	0.0	0.051	3.9	LOS A	0.3	1.9	0.27	0.58	45.6
6	R2	57	0.0	0.051	7.4	LOS A	0.3	1.9	0.27	0.58	45.5
Approa	ach	61	0.0	0.051	7.2	LOS A	0.3	1.9	0.27	0.58	45.4
North:	Island Pt R	d									
7	L2	21	0.0	0.080	3.5	LOS A	0.4	3.1	0.09	0.41	47.0
8	T1	94	0.0	0.080	3.4	LOS A	0.4	3.1	0.09	0.41	47.8
9	R2	2	0.0	0.080	6.9	LOS A	0.4	3.1	0.09	0.41	47.6
Appro	ach	117	0.0	0.080	3.5	LOS A	0.4	3.1	0.09	0.41	47.6
West:	Collete PI										
10	L2	11	0.0	0.015	4.5	LOS A	0.1	0.5	0.37	0.49	46.1
11	T1	3	0.0	0.015	4.4	LOS A	0.1	0.5	0.37	0.49	46.8
12	R2	2	0.0	0.015	7.9	LOS A	0.1	0.5	0.37	0.49	46.7
Approa	ach	16	0.0	0.015	4.9	LOS A	0.1	0.5	0.37	0.49	46.4
All Vehicles		331	0.0	0.107	4.4	LOS A	0.6	4.3	0.19	0.45	47.0

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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₩ Site: AnsonIsland PM 2011 + 35% + Masterplan

Anson St and Island Pt Rd

Roundabout with 1-lane approaches and circulating road

Roundabout

Move	ment P <u>er</u> f	formance - V	ehicle <u>s</u>								
Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back of Queue		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
Couthy Jolond Dt D d		veh/h	%	v/c	sec		veh	m		per veh	km/h
South: Island Pt Rd											
1	L2	2	0.0	0.116	3.7	LOS A	0.7	4.8	0.19	0.41	46.6
2	T1	143	0.0	0.116	3.6	LOS A	0.7	4.8	0.19	0.41	47.4
3	R2	9	0.0	0.116	7.1	LOS A	0.7	4.8	0.19	0.41	47.3
Approach		155	0.0	0.116	3.8	LOS A	0.7	4.8	0.19	0.41	47.3
East: A	Anson St Ex	xtension									
4	L2	4	0.0	0.037	4.5	LOS A	0.2	1.3	0.37	0.59	44.9
5	T1	2	0.0	0.037	4.4	LOS A	0.2	1.3	0.37	0.59	45.5
6	R2	34	0.0	0.037	7.9	LOS A	0.2	1.3	0.37	0.59	45.4
Approa	ach	40	0.0	0.037	7.4	LOS A	0.2	1.3	0.37	0.59	45.4
North:	Island Pt R	Rd									
7	L2	136	0.0	0.205	3.5	LOS A	1.3	8.9	0.09	0.43	47.0
8	T1	172	0.0	0.205	3.4	LOS A	1.3	8.9	0.09	0.43	47.7
9	R2	11	0.0	0.205	6.9	LOS A	1.3	8.9	0.09	0.43	47.6
Approa	ach	318	0.0	0.205	3.6	LOS A	1.3	8.9	0.09	0.43	47.4
West:	Collete Pl										
10	L2	3	0.0	0.007	4.4	LOS A	0.0	0.2	0.36	0.49	45.9
11	T1	2	0.0	0.007	4.4	LOS A	0.0	0.2	0.36	0.49	46.6
12	R2	2	0.0	0.007	7.9	LOS A	0.0	0.2	0.36	0.49	46.5
Approa	ach	7	0.0	0.007	5.4	LOS A	0.0	0.2	0.36	0.49	46.2
All Veh	nicles	520	0.0	0.205	4.0	LOS A	1.3	8.9	0.15	0.44	47.2

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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𝒞 Site: AnsonIsland AM 2011 + 35% + Masterplan

Anson St and Island Pt Rd Roundabout with 1-lane approaches and circulating road

Roundabout

Moven	nent Pe <u>rfo</u>	ormance - V	ehicle <u>s</u>								
Mov	OD	Demand Flows		Deg.	Average	Level of	95% Back of Queue		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
South: Island Pt Rd		veh/h	%	v/c	sec		veh	m		per veh	km/h
				0.407					0.40	0.40	40.0
1	L2	2	0.0	0.127	4.6	LOS A	0.7	5.1	0.40	0.49	46.0
2	T1	126	0.0	0.127	4.5	LOS A	0.7	5.1	0.40	0.49	46.7
3	R2	11	0.0	0.127	8.0	LOS A	0.7	5.1	0.40	0.49	46.6
Approach		139	0.0	0.127	4.7	LOS A	0.7	5.1	0.40	0.49	46.7
East: A	nson St Ext	tension									
4	L2	6	0.0	0.147	4.1	LOS A	0.8	5.8	0.29	0.59	44.8
5	T1	2	0.0	0.147	4.0	LOS A	0.8	5.8	0.29	0.59	45.5
6	R2	172	0.0	0.147	7.5	LOS A	0.8	5.8	0.29	0.59	45.4
Approach		180	0.0	0.147	7.3	LOS A	0.8	5.8	0.29	0.59	45.4
North: I	sland Pt Ro	ł									
7	L2	27	0.0	0.085	3.5	LOS A	0.5	3.4	0.10	0.41	47.0
8	T1	94	0.0	0.085	3.4	LOS A	0.5	3.4	0.10	0.41	47.7
9	R2	2	0.0	0.085	7.0	LOS A	0.5	3.4	0.10	0.41	47.6
Approa	ch	123	0.0	0.085	3.5	LOS A	0.5	3.4	0.10	0.41	47.6
West: C	Collete PI										
10	L2	11	0.0	0.016	5.2	LOS A	0.1	0.6	0.47	0.53	45.9
11	T1	3	0.0	0.016	5.1	LOS A	0.1	0.6	0.47	0.53	46.6
12	R2	2	0.0	0.016	8.6	LOS A	0.1	0.6	0.47	0.53	46.5
Approa	ch	16	0.0	0.016	5.6	LOS A	0.1	0.6	0.47	0.53	46.1
All Vehi	icles	458	0.0	0.147	5.5	LOS A	0.8	5.8	0.28	0.51	46.4

Level of Service (LOS) Method: Delay (RTA NSW).

Vehicle movement LOS values are based on average delay per movement

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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