

MOVEMENT SUMMARY

Site: 2020 Development AM peak
5.00 am to 6.00 am with development

Pacific Hwy / Masonite Road roundabout
2020 Development AM peak (5 am to 6 am) with development
Roundabout

Movement Performance - Vehicles											
Mov ID	Turn	Demand Flow veh/h	HV %	Deg. Satn v/c	Average Delay sec	Level of Service	95% Back of Queue Vehicles veh	Back of Queue Distance m	Prop. Queued	Effective Stop Rate per veh	Average Speed km/h
South: Masonite Road											
1	L	43	7.5	0.065	8.1	LOS A	0.4	3.2	0.73	0.64	40.8
2	T	48	7.5	0.065	8.9	LOS A	0.4	3.2	0.73	0.69	41.4
3	R	7	7.5	0.065	18.1	LOS B	0.4	2.8	0.73	0.93	38.0
Approach		98	7.5	0.065	9.2	LOS B	0.4	3.2	0.73	0.68	40.8
East: Pacific Highway NE											
4	L	143	7.5	0.517	9.6	LOS A	4.8	36.0	0.80	0.80	53.2
5	T	778	7.5	0.517	10.1	LOS A	4.8	36.0	0.81	0.84	52.9
6	R	12	7.5	0.522	19.8	LOS B	4.4	32.7	0.81	1.06	48.2
Approach		932	7.5	0.517	10.2	LOS B	4.8	36.0	0.81	0.84	52.8
North: Adelaide Street											
7	L	20	7.5	0.296	7.1	LOS A	1.9	14.3	0.56	0.56	41.8
8	T	151	7.5	0.297	6.9	LOS A	1.9	14.3	0.56	0.52	42.4
9	R	493	7.5	0.297	16.0	LOS B	1.9	14.3	0.58	0.83	38.0
Approach		665	7.5	0.297	13.7	LOS B	1.9	14.3	0.57	0.75	38.8
West: Pacific Highway SW											
10	L	144	7.5	0.239	5.7	LOS A	1.9	14.2	0.23	0.43	58.2
11	T	311	7.5	0.239	5.4	LOS A	1.9	14.2	0.23	0.38	58.3
12	R	277	7.5	0.239	14.2	LOS A	1.8	13.8	0.24	0.67	50.6
Approach		732	7.5	0.239	8.8	LOS A	1.9	14.2	0.24	0.50	54.9
All Vehicles		2428	7.5	0.522	10.7	LOS A	4.8	36.0	0.57	0.71	50.1

Level of Service (Aver. Int. Delay): LOS A. Based on average delay for all vehicle movements. LOS Method: Delay (RTA NSW).

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

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

Roundabout Capacity Model: SIDRA Standard.

Design Life Analysis Objective: Practical Capacity (v/c ratio = xp). (Results for 10 years)

The specified Design Life Target was not reached by the final year in the Design Life Analysis. Results are reported for the final year.

Processed: Tuesday, 25 May 2010 8:06:42 PM

SIDRA INTERSECTION 4.0.18.1102

Project: C:\Work Docs\Sandvik Heatherbrae\Sandvik 120510\Pacific Hwy.SIP

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