Sent: 27/01/2021 2:47:11 PM

Subject: DA2020/1758

Attachments: DA2020_1758_HARVEY.pdf;

Please see attached my objection to the associated DA.

Regards,

Joseph Harvey 50 Beatrice Street Balgowlah heights Re: DA2020/1758

I refer to the above development application and would like to lodge an objection.

I live at 50 Beatrice Street with my wife and two young daughters, aged 3 and 5. They will be attending Balgowlah Heights Public School from 2022.

I believe there are numerous reasons that the application should be rejected, such as need within the local area for another childcare centre, and overall size of the proposal. I will outline in depth only the reasoning behind the strongest part of my objection: increased traffic and its effect on road safety.

As anyone from this area will tell you, traffic congestion/parking at drop off and pickup time is already a major concern around Balgowlah heights Public School (BHPS). The associated increase in traffic and reduced road safety for this proposal are enough to make approval of this development at best irresponsible, and at worst, negligent.

I have several concerns regarding the proposal report titled TRAFFIC AND PARKING IMPACT ASSESSMENT OF PROPOSED CHILD CARE CENTRE AT 11 LEWIS STREET, BALGOWLAH HEIGHTS by McLaren Traffic Engineering & Road Safety Consultants, dated 17th December, 2020.

On Page 3 of 16

2.1.3 Beatrice Street

- Unclassified LOCAL Road;
- Approximately 10m wide two-way carriageway facilitating one traffic flow lane in each direction and kerbside parking;
- Signposted 50km/h speed limit;
- Unrestricted kerbside parking available on both sides of the road.

Beatrice Street is not 10m wide near the proposal. This ignores the fact that the parking and pedestrian traffic for the school extends through to Beatrice Street. In fact, the school traffic speed limit extends to this region. Beatrice Street south of Ernest Street is only 7m wide. This means that parking on either side of the road effectively turns it into a one-way road. There is a walkway from the back of BHPS that means any increase in traffic on Lewis Street will presumably increase traffic on Beatrice Street for pickup and drop off, as it is already an easier process. Combine this with it being a regular bus route for route 162, and it means

people drive through this area aggressively as it is, swerving in and out between parked cars and avoiding oncoming traffic lest they get stuck waiting. Ask any bus driver of the route and I have no doubt they will concur that increased car parking and traffic at drop off and pickup in this area would create safety issues.

• On Page 4 of 16

Automatic Traffic Count (ATC) surveys were undertaken over a period of seven days from the 17th November 2020 to 24th November 2020 (inclusive) across both directions of travel of Lewis Street at the proposed site driveway location to determine the existing characteristics of Avoca Drive in terms of:

- · Peak traffic volumes and speeds;
- Daily traffic volumes and speeds;
- · Classification of vehicles.

Unsure what Avoca Drive is referencing, apart from the fact that this may have been taken from another report.

TABLE 1: 7-DAY TUBE SURVEY RESULTS

Road	Direction	Peak Hour V	olume	Average Daily	85th Percentile	Heavy	
Road	Direction	Time	Volume	Volume	Speed	Vehicles	
		Weekday AM (8am – 9am)	135	740	AC Flore (b	2.40/	
	Northbound	Weekday PM (3 pm – 4 pm)	92	742	46.5km/h	3.1%	
		Weekend (9am – 10am) 36 418		418	48.4km/h	1.6%	
	Southbound	Weekday AM (8am – 9am)	81	500	40 Cl	3.4%	
Lewis Street		Weekday PM (3 pm – 4 pm)	46	590	48.6km/h	3.4%	
		Weekend (12pm – 1pm)	41	413	51.5km/h	1.5%	
	Combined	Weekday AM (8am – 9am)	217	1332	47.4km/h	0.004	
		Weekday PM (3 pm – 4 pm)	139	1332	47.4KII/II	3.2%	
		Weekend (12pm – 1pm)	76	822	49.7km/h	1.5%	

So let me understand this? Supposedly at the site driveway location, literally the house next door to a school, 85th percentile speeds for traffic during school drop off and pick-up times average, AVERAGE, 7km/hr over the speed limit. If anyone has spent anytime at BHPS during this time, I think it would be hard to present this table with a straight face. Makes you wonder how much of the report was 'accidentally' associated with Avoca Drive?

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4.1 Traffic Generation

Traffic generation rates for the relevant land uses are provided in the Roads and Maritime Services (RMS) Guide to Traffic Generating Developments (2002) and recent supplements and are as follows:

3.11.3 Child care centres

Long-day care

7.00-9.00am 0.8 peak vehicle trips per child

2.30-4.00pm 0.3 peak vehicle trips per child

4.00-6.00pm 0.7 peak vehicle trips per child

The resulting traffic generation is summarised in Table 4.

TABLE 4: ESTIMATED TRAFFIC GENERATION

Use	Scale	Peak	Generation Rate	Trips ⁽¹⁾
Lana day assa	E7 Obildes	AM	0.8 per child	46 (23 IN , 23 OUT)
Long-day care	57 Children	PM	0.7 per child	40 (20 IN , 20 OUT)

Note: (1) Assumes 50/50 spilt of inbound and outbound traffic.

As shown, the expected traffic generation associated with the proposed development is in the order of **46** vehicle trips in the AM peak period (23 IN, 23 OUT) and **40** vehicle trips in the PM peak period (20 IN, 20 OUT). Note that this traffic generation is considered to be conservative as it does not incorporate the traffic generation of the existing site use.

It is noted that it is conservative to expect that 10% of enrolled children will have a sibling attending the neighbouring Balgowlah Heights Public School and as such, will not contribute to additional traffic generation associated with the site as the parent will already be in the road network to drop off their primary school-aged child.

The 10% correlation rate, therefore, means that the traffic generation associated with 51 children are accessing the site. By applying the same traffic generation rates as above, this is equivalent to 41 vehicle trips in the AM peak hour period (21 IN, 20 OUT), and 36 vehicle trips in the PM peak hour period (18 IN, 18 OUT). Nevertheless, for conservative analysis, the full scale of traffic generation of the proposed child care centre has been assessed for its impact on the road network as below.

- ------

When one actually looks deeper into the suggested traffic volume associated with a 57 children, the rates used in the report are quite old. In fact further research shows that the estimated traffic generation in the 2002 RMS guide come from surveys in 1992. See below an excerpt from the RMS report referenced by the traffic report.

3.11.3 Child care centres

Overview

Surveys were undertaken in 1992 of pre-school, long day-care and before / after school care centres in the Sydney region. The best indicator of peak traffic generation was found to be the number of children that attended each centre. The time that traffic activity was at a peak varied with the differing operating hours of the child care centres. Pre-school centres typically had peaks in the periods 8.00-9.00 am and

Guide to Traffic Generating Developments. October 2002 Issue 2.2 3-19



Section 3 - Land Use Traffic Generation

2.30-4.00pm. Long day-care centres typically had peaks in both commuter peak periods. Before/after school care centres generally have their highest peak activity in the afternoon commuter peak period. The vehicle generation rates given below are the mean peak generation rates for each centre type in the periods specified. As these figures are mean figures, rates may be higher or lower, depending on the circumstances.

Rates

Table 3.6 Traffic generation rates

Centre Type	Peak Vehicle Trips / Child						
	7.00- 9.00am	2.30- 4.00pm	4.00- 6.00pm				
Pre-school	1.4	0.8	-				
Long-day care	0.8	0.3	0.7				
Before/after care	0.5	0.2	0.7				

Factors

The centres surveyed had between 25-60 children attending pre-schools, between 29-66 children in long day-care and between 22-55 children in before / after school care. The gross floor area was the next best indicator of traffic generation. The centres surveyed had gross floor areas in the range 145-470 $\rm m^2$ for pre-schools, 160-595 $\rm m^2$ for long day-care and 52-150 $\rm m^2$ for before / after care. The mean floor area per child was 6.7 $\rm m^2$ for pre-schools, 7.8 $\rm m^2$ for long-day care and 3.2 $\rm m^2$ for before / after care.

The mean proportions of children transported to each centre type by car was 94% for the pre-schools, 93% for the long day-care and 75% for the before /after school care.

Parking demand was highest for the pre-school and lowest for the before / after school care, averaging over all centres 0.23 cars per child at any one time, with the average length of stay for all centres being 6.8 minutes.

Note the way it is phrased between this RMS report and the traffic report. The RMS says the peak reached is 0.8 trips per child. The traffic report suggests the total amount of traffic within the 7-9am peak period is 0.8. It just doesn't equate to the same thing.

Note also that the report also suggests an average of 93% of children are transported by car. And yet, the maths within the traffic report for LEWIS st suggest between 7 and 9am each day, only 23 drop offs. Where/when are the other 30 odd children arriving?

The same report also includes:

5.12.3 Child care centres

Definition

A child care centre is a building or place used for child care as defined in Part VII of the Child Welfare Act, 1939.

The centre can provide pre-school care, long day care, before / after school care or a combination of the above.

Parking

Off-street parking must be provided at the rate of one space for every four children in attendance.

Given the short length of stay (the RTA's surveys found an average length of stay of 6.8 minutes), parking must be provided in a convenient location, allowing safe movement of children to and from the centre.

Consideration could be given to reducing the parking required if convenient and safe on-street parking is available (e.g. indented parking bays), provided that the use of such parking does not adversely affect the amenity of the adjacent area.

Driveways

See Table 6.1 and Table 6.2 for information relating to driveways.

Surveys

The report Land Use Traffic Generation - Data and Analysis 21 - Child Care Centres outlines research undertaken on the traffic and parking characteristics of child care centres.

Presumably they have chosen to not pay attention to the off street car parking for 1 in every four children proposed by the same report they reference. When reading the description above, it is clear they intend this to be available car spots for parents, not included in the spots for workers. Using this maths, LEWIS street would be required to provide 14 car spots for parents. Not 6.

Also, transport has evolved since 1992. Active travel to school has declined over the last 40 years from 75 to 25% of trips (see https://www.abc.net.au/news/2020-10-20/walk-to-

<u>school-children-transport-traffic-health-safety/12660300</u>). We now rely on cars for transporting our children far greater than previously. It is not a trend I support, but it is a fact.

RMS has even now conducted further studies on this type of development as they recognise how much things have changed. I draw your attention to "ROADS AND MARITIME SERVICES TRIP GENERATION SURVEYS CHILD CARE CENTRES" from 2015.

See links below.

DATA COLLECTION DOCUMENT AT:

https://media.opengov.nsw.gov.au/pairtree_root/95/67/b1/c9/23/62/46/9c/bb/e5/ff/2a/bd/38/60/17/obj/164789.pdf

REPORT AT:

https://media.opengov.nsw.gov.au/pairtree_root/e0/67/05/10/fb/27/47/e2/bb/59/8e/b1/3 b/fa/e9/f0/obj/164790.pdf

Within the documents linked above, I draw your attention to SITE S4. It is the only surveyed Long Day Care Centre (LDCC) within the report that exists within a residential area, similar to the proposal.

2.2.4 Site S4 Acre Woods Childcare, Roseville

Table 2.5 Survey site details - Site S4.

Name of the development	Acre Woods Childcare												
Address		81 Clanville Rd, Roseville NSW 2069											
Date(s) of Survey		3-5.06.2015, 9	.06.2015, 15.06.2015										
Day	Opening hours	No. of employees	No. of on site parking spa										
Monday	7:30am - 6:00pm	15											
Tuesday	7:30am - 6:00pm	15											
Wednesday	7:30am - 6:00pm	15											
Thursday	7:30am - 6:00pm	15	90	18									
Friday	7:30am - 6:00pm	15											
Saturday	Closed		1										
Sunday	Closed]										
Building area	GFA, m ²	Levels	GFA per level, m ²	Facility Type									
Total GFA, m ²	743	1	743	LDCC									
Total site area, m ²	3014	1	743	шкс									
Surrounding land uses	Low density residential dy	wellings.											
On-street Parking Regime				chibold Road. The remainder of tricted parking opportunities.									
Frontage Road Characteristics	Road Characteristics Clanville Road has two travel lanes and two parking lanes. Archibold Road has 4 travel lanes (2 of which can be used as parking lanes).												
Accessibility score ¹	144 Accessibility discount factor 0.4												

Table 3.14 Site S4 Acre Woods Childcare, Roseville - Survey Results - Hourly data - rolling at 15 minute intervals - Tuesday 09/06/2015.

ATE 1-l	9 June 2015 hour Data		Acre Woods Childcare Roseville - 81 Clanville Rd, Roseville N									
WE	ATHER Fine		Children Drop-Off and Pick-Up									
WEA	ATHER FINE		1	N			O	UT	\\	Starr ar	d Other	
	TIME	Drive	Walk	Other	Total	Drive	Walk	Other	Total	In	Out	
	AM											
6:30	to 7:30	3	0	1	4	0	0	0	0	2	0	
6:45	to 7:45	8	0	1	9	4	0	0	4	3	0	
7:00	to 8:00	18	0	1	19	12	0	0	12	3	0	
7:15	to 8:15	32	0	0	32	29	0	0	29	3	1	
7:30	to 8:30	42	1	0	43	37	0	0	37	2	1	
7:45	to 8:45	40	1	0	41	39	0	0	39	1	1	
8:00	to 9:00	47	1	0	48	54	0	0	54	1	2	
8:15	to 9:15	34	1	0	35	38	0	0	38	1	1	
8:30	to 9:30	27	0	0	27	35	0	0	35	1	1	
	PM											
14:30	to 15:30	6	0	0	6	4	0	1	5	0	0	
14:45	to 15:45	6	0	0	6	4	1	1	6	0	0	
15:00	to 16:00	6	0	0	6	4	1	0	5	0	0	
15:15	to 16:15	7	0	0	7	5	1	0	6	0	0	
15:30	to 16:30	9	0	0	9	7	1	0	8	0	0	
15:45	to 16:45	12	0	0	12	10	1	0	11	0	0	
16:00	to 17:00	34	0	0	34	25	1	0	26	0	0	
16:15	to 17:15	38	0	0	38	31	1	0	32	0	0	
16:30	to 17:30	41	0	0	41	43	2	0	45	0	0	
16:45	to 17:45	42	0	0	42	42	2	0	44	0	0	
17:00	to 18:00	25	0	0	25	36	2	0	38	0	0	

Grand Total					
1-hou	ur Data	1	Fr	Road	
T	rips	ı			
Car Non-car			NB	SB	Total
5	1		255	956	1211
15	1	ı	456	1469	1925
33	1	ı	751	1958	2709
65	0	ı	994	2161	3155
82	1	ı	1132	2162	3294
81	1	1	1045	2083	3128
104	1	1	845	1831	2676
74	1	1	640	1488	2128
64	0	ı	532	1205	1736
		ı			
10	1	ı	1341	822	2163
10	2	1	1409	888	2297
10	1	1	1461	930	2391
12	1	1	1525	940	2465
16	1	1	1527	929	2456

l	Parking Demand										
	General	Staff	Disabled	Street	Total						
	5	3	0	0	8						
	8	3	0	0	11						
	11	5	0	0	16						
ı	9	5	0	0	14						
ı	12	5	0	0	17						
	10	6	0	0	16						
	5	6	0	0	11						
	6	6	0	0	12						
	5	7	0	0	12						
	2	7	0	0	9						
	2	7	0	0	9						
	2	6	0	0	8						
	3	6	0	0	9						
	4	6	0	0	10						
	4	6	0	0	10						
	11	4	0	0	15						
	10	4	0	0	14						
	2	4	0	0	6						
	4	2	0	0	6						
	0	2	0	0	2						

						Sydne	y Sites						Region	al Sites
Site ID	Site S1	Site S2	Site S3	Site S4	Site S5	Site S6	Site S7	Site S8	Site S9	Site S10	Site S11	Site S12	Site R1	Site R2
			Billy Kids Bilgola				Wattle Grove Public		YMCA Malabar Out	Duffy's Corner			Nords Wharf	
lame of the development	Wattle Grove Long	Acre Woods	Early Learning	Acre Woods	Hilda Booler	KU Maybanke	School Out of	Kegworth Out of	of School Hours	Occasional Child	Redfern Occasional	Balmain/Rozelle	Community Pre	WOOSH Car
ame or the development	Day Care Centre	Childcare	Centre	Childcare	Kindergarten	Preschool	School Hours Care	School Hours Care	Care	Care Centre	Care	Occasional Care	School School	WOOSH Car
Sentre type	LDCC	LDCC	LDCC	LDCC	PS	PS	OSHC	OSHC	OSHC	OC	OC	00	PS	OSHC
						l .		Cnr Tebuff St &						Woodport Pub
	8-10 Burdekin	22-24 College	100 Plateau Road,	81 Clanville Rd. Roseville NSW	Jubilee Park,	99 Harris Street.	Cressbrook Drive,	Lords Road.	231-239 Franklin	419a Beauchamp	55 Pitt Street,	370 Darling Street,	44 Government	School Com
ite address	Court, Wattle Grove	Street, Gladesville	Bilgola Plateau		Eglinton Road,	Pyrmont NSW 2009	Wattle Grove NSW	Leichhardt NSW	St, Chifley NSW	Road, Maroubra	Redfern NSW 2016		Road, Nords Wharf	Entrance Road
	NSW 2173	NSW 2111	NSW 2107	2069	Glebe NSW 2037	,	2173	2040	2036	NSW 2035			NSW 2281	Ernest Street,
				Wed-Fri, 3-5/06/15	_							_		NSW 2250
ter and data of committee	Mon. 01/06/15	Wed. 03/06/15	Wed. 03/06/15	Tue. 09/06/15	Thu. 18/06/15	Thu. 25/06/15	Mon. 01/06/15	Mon. 22/06/15	Wed-Thu, 24-	Thu. 18/06/15	Thu. 18/06/15	Mon-Tue, 22-	Wed. 24/06/15	Thu, 18/06/1
lay and date of survey(s)	Mon, 01/06/15	Wed, US/06/15	Wed, 03/06/15	Mon. 15/06/15	Inu, 1806/15	Inu, 25/06/15	Mon, 01/06/15	Mon, 22/06/15	25/06/15	Inu, 18/06/15	Inu, 18/06/15	23/06/15	Wed, 24/06/15	Inu, 18/06/1
	6:30-9:30	6:30-9:30	6:30-9:30	6:30-9:30	7:00-10:00	7:00-10:00	6:30-9:30	6:30-9:30	6:30-9:30	7:00-10:00	7:00-10:00	7:00-10:00	7:00-10:00	6:30-9:30
turation of survey - frontage road	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:00-17:30	14:00-17:30	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:00-17:30	14:30-18:0
	6:30-9:30	6:30-9:30	6:30-9:30	6:30-9:30	7:00-10:00	7:00-10:00	6:30-9:30	6:30-9:30	6:30-9:30	7:00-10:00	7:00-10:00	7:00-10:00	7:00-10:00	6:30-9:30
luration of survey - site trip generation	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:00-17:30	14:00-17:30	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:30-18:00	14:00-17:30	14:30-18:0
								Low density						
	I							residential,	Low density		I		l	
		Commercial / retail.		Low density residential	Low desnisty residential and	Commercial / retail and residential	Low density residential housing	Kegworth Public	residential, retail, Malabar Medical	Low density	Commercial / retail.	Commercial/retail, industrial site and	Low density	Commercial / and low dent
urrounding land uses	Commercial / retail.	Commercial / retail.	Commercial / retail.				and public school.	School and	Centre and	residential housing.	Commercial / retail.		residential.	
	I			dwellings.	parklands.	dwellings.	and public school.	Leichardt	Conwell Park.			medical centre.		residential
								Marketplace.	Cromwell Park.					
rontage road - AM peak period (weekday)	8:00-9:00	8:00-9:00	8:30-9:30	multi-day1	8:30-9:30	8.45-9.45	8:30-9:30	8:00-9:00	6:30-7:30	8:00-9:00	8:30-9:30	8:30-9:30	8:30-9:30	8:00-9:00
rontage road - PM peak period (weekday)	15:15-16:15	15:15-16:15	15:00-16:00	multi-day	14:45-15:45	15:30-16:30	15:15-16:15	16:45-17:45	16:30-17:30	16:45-17:45	16:15-17:15	16:15-17:15	15:00-16:00	8:15-9:15 14:45-15:4
	10.15-10.15	13, 13-19, 13	13.00-16.00	muo-oay	14,40-10,40	10.30-10.30	13,13-19,13	19.45-17.45	10.30-17.30	19,40-17,40	10.13-17.13	10.13-17.13	13.00-16.00	14,43-13,4
Development details:										1990			1989	1995
ear opened	1992	2003	2007 2318	2004 3014	not provided 1312	not provided 1014	2004 882	2003 202	2003 303	1990	not provided 1049	not provided 317	475	1112
otal site area (m²)	514	1041	302		387	197	882	202	303	295	768	317	165	112
otal GFA (m²)		90		743		30					760		100	
io. of licensed places for children	45 12	10	56 10	90	40	30	75	105	70	29 6	10	25	20	70
io. of employees	12	10	10	15		5	4	. 11		0	10	4	3	5
/ehicle trips:														
entre peak hour vehicle trips (in+out) AM	27	80	40	93	39	11	42	39	38	30	8	16	25	4
ime of Centre peak hour vehicle trips (AM)	7:30-8:30 7:45-8:45	7:30-8:30	8:00-9:00	multi-day1	8:30-9:30	8:30-9:30	6:45-7:45	7:15-8:15	8:00-9:00	8:00-9:00 8:15-9:15	8:30-9:30 8:45-9:45 9:00-10:00	8:30-9:30 8:45-9:45 9:00-10:00	8:45-0:45	6:30-7:30 6:45-7:45 7:00-8:00
entre peak hour vehicle trips per licensed place (AM)	0.60	0.89	0.71	1.03	0.98	0.37	0.56	0.37	0.54	1.03	0.22	0.64	1.25	0.06
entre peak hour vehicle trips per 100m2 of total GFA (AM)	5.25	7.68	13.25	12.52	10.08	5.58	4.76	19.31	12.54	10.17	1.04	5.05	15.15	3.57
entre peak hour vehicle trips (in+out) PM	31	73	46	77	32	11	36	53	18	40	26	6	22	34
Ime of Centre peak hour vehicle trips (PM)	16:30-17:30	17:00-18:00	16:00-17:00	multi-day	14:15-15:15	14:00-15:00	16:45-17:45	16:15-17:15	16:45-17:45	15:45-16:45	15:00-16:00	14:30-15:30	14:30-15:30	17:00-18:0
	0.69	0.81	0.82	0.86	0.80	14:15-15:15 0.37	0.48	0.50	17:00-8:00	1.38	0.72	14:45-15:45	1.10	0.49
entre peak hour vehicle trips per licensed place (PM)	6.03	7.01	15.23	10.36	8.27	5.58	4.08	26.24	5.94	13.56	3.39	1.89	13.33	30.36
lentre peak hour vehicle trips per 100m2 of total GFA (PM)	18					9.50	4.00		5.94		5.39	16	13.33	30.36
ehicle trips during adjacent road's peak hour (AM)	0.40	72 0.80	39 0.70	58 0.64	39 0.98	0.30	0.00	0.21	0.06	1.03	0.17	0.64	1,20	0.00
whicle trips per licensed place during adjacent road's peak hour (AM)	3.50	6.92	12.91	7.81	10.08	4.57	0.00	10.89	1.32	10.17	0.17	5.05	14.55	0.00
ehicle trips per 100m ² of GFA during adjacent road's peak hour (AM)	23	27	12.91	7.81	28	4.57	13	50	16	2	0.76	0	14.50	2
ehicle trips during adjacent road's peak hour (PM)	0.51	0.30	0.25	0.56	0.70	0.13	0.17	0.48	0.23	0.07	0.00	0.00	0.70	0.03
ehicle trips per licensed place during adjacent road's peak hour (PM) ehicle trips per 100m2 of GFA during adjacent road's peak hour (PM)	0.51 4.47	2.59	0.25 4.64	6.73	7.24	2.03	1.47	0.48 24.75	0.23 5.28	0.07	0.00	0.00	8.48	1.79
	9.97	2.39	4.04	0.73	1.24	2.03	1.47	24.70	0.20	0.00	0.00	0.00	0.40	1.79
Parking:														
io, of on site parking spaces	13	14	10	18	0	0	0	0	0	0	10	5	4	22
eak parking accumulation	13	16	9	14	7	6	5	12	12	10	3		6	6
eak parking accumulation per licensed place	0.29	0.18	0.16	0.16	0.18	0.20	0.07	0.11	0.17	0.34	0.08	0.28	0.30	0.09
eak parking accumulation per 100m ² of total GFA	2.53	1.54	2.98	1.88	1.81	3.05	0.57	5.94	3.96	3.39	0.39	2.21	3.64	5.36
ime of peak parking accumulation	8:30-9:30	7:45-8:45	8:30-9:30	multi-day	15:30-16:30	9:00-10:00	16:15-17:15	15:45-16:45	16:00-17:00	15:15-16:15	multiple hours	8:30-9:30	8:15-9:15	17:00-18:0

For 90 children, they had a total between 7-9am of 137 car trips, 67 in and 70 out. Or in other words, 1.52 total trips per child licence of the centre. That would equate to 87 total trips in the 7-9am morning for LEWIS st., almost double the 46 suggested within the traffic report. The difference is startling.

¹ Includes deliveries and couriers for car trips ONLY, no non-car trips for staff and other business visitors were recorded at all survey sites. Trip Generation Surveys—Child Care Centres
TEE Consulting

They had a peak vehicle AM hour in+out trip total of 1.03 of licenced places, which would equate to a PEAK 59 trips/hr to the Lewis Street proposal, a peak vehicle PM hour in+out trip total of 0.86 of licenced places, which would equate to 49 trips to the Lewis Street proposal. Also, a peak parking accumulation of 0.16 per licenced place, which would equate to 10 parking spaces being required by parents.

Using LDCC and Pre school only data from the recent survey

Table 3.3 Summary of trip and parking rates (LDCC and PS only).

LDCC and PS only	Min	Max	Avg	St Dev
Development details:				
Total site area (m ²)	475	3014	1535	851
Total GFA (m ²)	165	1041	478	317
No. of licensed places for children	20	90	53	28
No. of employees	3	15	9	4
Vehicle trips:				
Centre peak hour vehicle trips (in+out) AM	11	93	45	30
Centre peak hour vehicle trips per licensed place (AM)	0.37	1.25	0.83	0.30
Centre peak hour vehicle trips per 100m ² of total GFA (AM)	5.25	15.15	9.93	3.89
Centre peak hour vehicle trips (in+out) PM	11	77	42	25
Centre peak hour vehicle trips per licensed place (PM)	0.37	1.10	0.78	0.22
Centre peak hour vehicle trips per 100m ² of total GFA (PM)	5.58	15.23	9.40	3.73
Centre vehicle trips during adjacent road's peak hour (AM)	9	72	37	22
Centre vehicle trips per licensed place during adjacent road's peak hour (AM)	0.30	1.20	0.72	0.31
Centre vehicle trips per 100m ² of GFA during adjacent road's peak hour (AM)	3.50	14.55	8.62	4.12
Centre vehicle trips during adjacent road's peak hour (PM)	4	50	23	15
Centre vehicle trips per licensed place during adjacent road's peak hour (PM)	0.13	0.70	0.45	0.22
Centre vehicle trips per 100m ² of GFA during adjacent road's peak hour (PM)	2.03	8.48	5.17	2.41
Parking:				
No of public car spaces	0	18	8	7
Peak parking accumulation	6	16	10	4
Peak parking accumulation per number of licensed places	0.16	0.30	0.21	0.06
Peak parking accumulation per 100m ² of total GFA	1.54	3.64	2.49	0.78

The above results indicate a strong relationship between the numbers of licensed places for children and Centre peak hour vehicle trips (both AM and PM).

There are also numerous other relevant conclusions in comparing the data from 2015 to 1992, such as

- LDCC having a slightly higher peak trip generation
- Centres of 40-65 children should have 1 car space for every 5 children (current proposal includes 1 per every 9.5)
- The regular occurrence of parents using on-street parking for pick up and drop off even when off street parking was available.

This all combines to show the proposed traffic generation and therefore traffic impact suggested in the report for the proposal are VERY outdated, based on old surveys that have been replaced by the RMS publishers themselves.

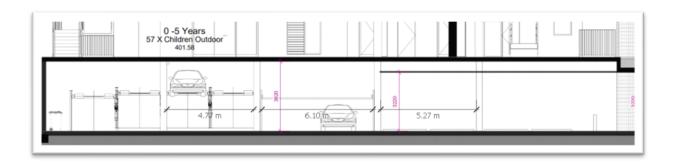
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5 CONCLUSION

The following outcomes of this traffic and parking impact assessment are relevant to note:

• The Manly DCP requires a total of 11 staff spaces to be provided whilst the proposal includes 10 staff car parking spaces within a proposed basement carpark, representing a numerical shortfall of one (1) staff space from the DCP requirements. Based on ABS Census data, the site would require nine (9) staff spaces, such that the provision of 10 staff spaces is acceptable.



The overall proposed car space design is borderline ridiculous. They propose ten, one less than council requires. They suggest six of these will be on top of car stackers. These ignore standards regarding clearance. They then propose that parents will be utilising 2 parking spots below car stackers. One presumes all 12 of the cars involved in car stacking are sedans I guess? If you drive a SUV as a parent, you are now using one of the 4 remaining car spots. Not forgetting that one of those 4 is a disabled spot. So we are now down to 3 spots. This is the most simple way of representing what a gross overdevelopment of the site the proposal represents.

3.6.1 Required Changes

3.6.1.1 Car Stacker Design

The detailed headroom clearance for the visitor spaces underneath the relevant car stacker are less than 2.2m. Additionally the available widths for most of the designated staff car stackers detailed on the plans are less than the minimum required 2.4m. The length of the

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car stackers appears to be less than the minimum required 5.4m such that the subsequent positioning of vehicles on and/or in the stackers is unclear. These details will be required to be modified to provide compliant dimensions. It has been advised that the car stackers illustrated within the assessed plans were only indicative and may not accurately reflect the finished product to be used in the proposed development.

It is recommended that a condition of consent be imposed that states that a compliance certificate be issued by a traffic engineer prior to a construction certificate being issued to confirm that the car park is compliant with the relevant standards and required changes outlined in Section 3.6.

Whilst the plans have been assessed to comply with the relevant standards, subject to the required changes outlined above, it is usual and expected that a design certificate be required at the Construction Certificate stage to account for any changes following the development application.

I disagree that this something that should be dealt with through a condition of consent. Much of the objection raised focusses on the ability to deal adequately with generated traffic. To suggest the developers can go ahead but 'work it out in the future' is not acceptable. I believe the current design is skirting the issues it will have to deal with, by assuming all workers cars will fit in the car stackers, and 40% of able bodied parents of the centre will also drive sedans and be happy to park in a zone with clearance of under 1900mm.

ANNEXURE B. It is hard to decipher, but the traffic report makes reference to pedestrian
counts out the front of the proposal site. I presume the table below represents these, as
they don't actually explain in detail pedestrian movement other than at LEWIS and ERNEST

st intersection. For example, from the table below, what else would average 1 movement an hour between 12 and 5 in the morning. Reading from the table, between 7-9am, total pedestrian traffic crossing the driveway at the site on a weekday averages 329 movements.

PEDESTRIAN COUNTS AT THE SITE DRIVEWAY



In summary, the area is already under pressure from too much traffic at school drop off and pickup times, with traffic flow being interrupted by parked cars and others searching for parking/avoiding buses. The presented traffic report uses old/incorrect data to suggest everything is fine. Using improved data for comparison, this proposal will see a total of 87 car trips across the pedestrian walkway on the west side of LEWIS street which carries 329 pedestrians will occur every weekday morning between 7 and 9am. Horrible to think of, and we aren't even short of childcare centres.

Against that backdrop, I also draw your attention to a 2019 report commissioned by the Heart Foundation regarding active travel to school.

https://www.healthyactivebydesign.com.au/images/uploads/Active Travel to School.pdf

Findings







Challenges

It's not always safe and easy for kids to walk, cycle, and scoot can be effectively to school in existing Australian urban environments.

Improvements

Relatively low-cost design improvements targeted to address key barriers to safe active travel.

Benefits

Safer and more enjoyable routes will encourage parents to allow their children to independently make their own way to school.

Messages







Physical activity

Active travel is a great opportunity for children to add to the recommended 60 minutes of moderate to vigorous physical activity per day.7

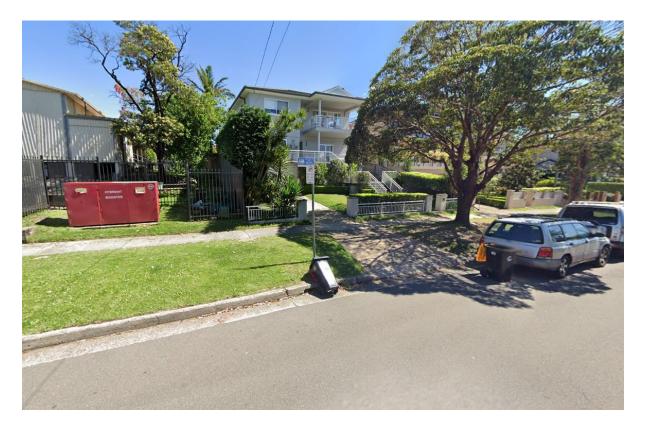
Safety

Children can experience significant improvements will active travel safety improvements as a result of a relatively low-cost investment of around \$450,000 per school.

Less congestion

Active travel encourage more children to walk, cycle, and scoot to school, and will reduce the number of car trips to and from schools.

And that is what it comes down to. This proposal seems intent on making it harder for our children to make their own safe way to and from school. - part of growing up that we all remember. And here we are considering whether we should essentially force parents to drive children the short walk, because we can't prioritise young people's pedestrian safety. And then more parents drive because its unsafe. And then its more unsafe. Ridiculous



329 pedestrians, many just children, meeting 87 cars at this point between 7 and 9 in the morning, 200 times a year.

Seems silly to approve that sort of daily conflict, doesn't it? Would only be a matter of time until something bad happens.

Thank you for your consideration,

Joseph Harvey

50 Beatrice Street