—BB Professional Services—



Social Impacts Assessment

concerning

285 Pacific Highway Lake Munmorah

prepared by

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1. Introduction

Brief

Social Impact Assessment was required for the rezoning and future sub-division of the land at 285, 295 and 305 Pacific Highway Lake Munmorah into approximately 300 lots, taking the impact of future housing.

The following components are required:

- Assess strategic need for the planning proposal; and
 - o Document availability of land appropriately zoned for development in Central Coast LGA; and
 - o Assess demand for land appropriately zoned for development through analysis of sales data and in the light of historic population growth and Department of Planning and Environment population projections; and
 - o Assess need for affordable housing options; and
 - o Assess affordability compared to affordability of alternatives; and
- Assess social and economic effects, including:
 - o An assessment of the likely number of dwellings;
 - o An assessment of the additional population likely as a result of the rezoning, including likely demography;
 - Assess likely need for social infrastructure (such as green space, recreation areas, community centres, libraries and public transport) arising as a result of the planning proposal, based on population and appropriate normative standards including by reference to Council s94 plans;
 - o Identify ability of the locality to service additional population, and identify any gaps, including any need for open space;
 - o Identify additional need and existing supply for other services including health, education and emergency services;
- Undertake a door knock of residents in the adjacent streets of Kemira Road, Wallaby Road and Kookaburra Avenue to further understand potential social impacts in the locality, and proposed likely mitigations.
- Identify any potential adverse impacts and propose relevant mitigations.

Tasks undertaken

- Consultation and liaison, in person, by phone or by e-mail, including as necessary:
 - o Developers, designers, planners involved in the project;
 - o Central Coast Council staff and Department of Planning and Environment staff;
 - Relevant service providers, government agencies, community organisations.
- Desk work, including:
 - o Review of relevant policy documents, maps, plans and designs;
 - Demographic description of local population and projected future population using ABS Census data and D0PE projections;
 - Current housing availability, addressing affordability, using on-line sales reports and properties listed as for sale;
 - Services currently available, projected service needs and services planned for the area;
 - o Availability and access to open space and recreational facilities;
 - Assessment of proposed housing in terms of affordability and housing for life.
- Field work, including:
 - Site inspection;
 - o Inspection of local shopping centre, nearby services and facilities;
 - Door knocking interviews with residents of streets near the site, particularly Kemira Road, Wallaby Road and Kookaburra Avenue.
- Analysis and report preparation, addressing:
 - strategic need for the proposed rezoning, sub-division and development, as specified in the brief;
 - o social and economic effects, as specified in the brief;
 - o perceptions and concerns of the adjacent community
 - o potential adverse impacts identified and appropriate mitigations.

Capacity to undertake this work

Dr Rigmor Berg, Principal of BB Professional Services, will undertake all tasks personally. She has BSc(Hons) PhD qualifications, plus Associate Professional Certificate in Expert Evidence for the Land and Environment Court from the University of Sydney Planning Research Centre with the Australian Property Institute. She has more than 30 years' experience in social and strategic research and has provided social impacts expert evidence in the Land and Environment Court for government, community and private sector clients.

A list of past work is at the end of this report from page 50 and more information is available at <u>https://www.bbps.com.au/</u>.

2. Conclusions

The overall social impacts of the proposed development will be very positive for the community of Lake Munmorah.

Potential positive social impacts

• There is clear need for more residential development in the suburb of Lake Munmorah. The population of the Central Coast is expected to grow substantially over the next 18 years. Much of this growth will be accommodated in the former Wyong Shire and the population of the Lake Munmorah-Chain Valley Bay area in particular is expected to grow by 77%. Some nearby residents expressed concern that already there are insufficient opportunities for the younger generation to find homes to buy or to rent so they can stay in the area.

The proposed development will add about 300 new homes to Lake Munmorah.

- The subject site is highly suitable for residential development in that:
 - a. It is large, flat and already largely cleared of trees;
 - b. It is close to essential services including:
 - i. shops, including supermarket, post office, bank, a range of specialty shops, petrol station and recycling facility;
 - ii. schools, including pre-school, primary school and high school;
 - iii. medical and other health services;
 - iv. recreational opportunities;
 - v. public transport;
 - vi. emergency services;
 - vii. churches.
- The proposed development will include valuable community facilities that will help to build a cohesive community, rich in social capital. These facilities will include:
 - a. a substantial green corridor along a natural watercourse;
 - b. picnic tables and barbequeue facilities in open green space in the northeastern corner, looking into the environmental area;
 - c. a dam in the north-eastern corner, with a solitude jetty;
 - d. a cycle path along the western side of the green corridor;
 - e. stroller/wheelchair-friendly footpaths;
 - f. picnic tables with bench seats and barbequeue facilities;
 - g. children's play equipment and a shelter for mothers and infants play group at the south western corner adjacent to the shopping centre, which could also be used for children's birthday parties, yoga classes and similar shared activities;
 - h. exercise stations to promote better health and friendly interactions through a shared activity.
- The most common occupations in the population of Lake Munmorah include technician and trades workers and labouring. Lake Munmorah currently has higher unemployment than is average for the state.

The proposed development will provide new employment opportunities for a wide range of technicians, tradesmen and labourers throughout the four stages of site preparation and construction. • The development will mean more customers for the shop-keepers in the Lake Munmorah shopping centre, which will help their businesses to thrive. It will also contribute to the feasibility of expanding the shopping centre to include a wider range of specialty shops, so residents will not need to travel to larger towns for shopping needs.

Potential negative social impacts

 The main potential negative impact identified by close neighbours was increased traffic in the area, which already has congestion near the schools at drop-off and pick-up times and at the Tall Timbers traffic lights in peak hour periods. There is also concern about increased risk to children due to dead-end streets becoming thoroughfares.

Traffic management strategies are outside the writer's expertise, but the proposed Link Road will presumably be helpful in addressing these concerns and there are many strategies available for slowing traffic in residential streets. The local Progress Association takes a keen interest in traffic matters and should be consulted in identifying appropriate solutions.

• Another potential negative impact identified by close neighbours was that local services, particularly schools, might not have capacity to accommodate so many additional people.

Both public and Catholic primary schools and both public and Catholic high schools indicated that they have ample capacity to absorb the likely increase in students.

The two existing pre-schools are already full to capacity, so there will be need for either Council or the private sector to provide additional pre-school services.

The medical centre in the adjacent shopping centre indicated that they already have capacity to meet the needs of increased numbers and there is another nearby medical service on the opposite side of the Pacific Highway.

 Residents close to the north-eastern corner of the site reported experiencing drainage problems and suggested that drainage would be a central issue for the development. The Lake Munmorah Bowling Club also reported that they have experienced serious drainage problems since a dam nearby, which is downstream in the natural overland flow path that crosses the subject site, was filled in.

Drainage is also beyond the expertise of the writer, but presumably the construction of a dam in the north-east corner and retention of a green corridor along the natural overland flow path will address these problems, together with appropriate drainage measures within the residential streets of the site.

3. The site

The site is located at 285-305 Pacific Highway, Lake Munmorah. Currently zoned RU6 (Transition), the site is adjacent to the Lake Munmorah shopping centre and to residential streets zoned R2 (Low Density Residential), as well as land zoned RE1 (Public Recreation) to the north and west and land zoned E2 (Environmental Conservation) to the north west.





Source: Central Coast Council



Figure 2: The proposed 4 stage R2 low density residential development

Source: EDH Group Architects

The subject site is suitable for residential development in that it is quite flat and already largely cleared, due to previous uses.

Figure 3: The site at 285, 295 and 305 Pacific Highway



BB Professional Services Social Impacts Assessment re 285 Pacific Highway Lake Munmorah



4. The population of Lake Munmorah

Age, gender and cultural background

At the 2016 Census, Lake Munmorah suburb had a total population of 5,248 people, with a close to even gender balance (51.5% female : 48.5% male). If houses in the proposed development are occupied by the same average number of people per household on average as the existing suburb (2.4) then 300 new houses would mean a population increase of 720 people or almost 14 percent.

The population of Lake Munmorah, has an older median age (48 years) than NSW overall (38 years), in large part due to the many residential park retirement villages in the suburb, but houses in the streets closest to the subject site are predominantly occupied by working families with young children, but also some retirees and it is anticipated that potential residents of the proposed development will be similarly diverse. If the new residents closer to NSW averages, then the population increase may be closer to 900 or 17 percent.

The Lake Munmorah population is overwhelmingly Anglo-Celtic Australian, with very few people from culturally and linguistically diverse backgrounds. The large majority (82.3%) were born in Australia, compared with only two thirds (65.5%) for NSW overall. The non-Australian top response birth places were England, New Zealand and Scotland.

There is a small, but larger than average for NSW (4.2% vs 2.9%), Aboriginal population in Lake Munmorah

People Persons count based on place of usual residence on Census night	Lake Munmorah	%	New South Wales	%	Australia	%
Male	2,543	48.5	3,686,014	49.3	11,5 <mark>4</mark> 6,638	49.3
Female	2,699	51.5	3,794,217	50.7	11,855,248	50.7
Aboriginal and/or Torres Strait Islander people	218	4.2	216,176	2.9	649,171	2.8
In the 2016 Census, there were 5,248 people in Lake M	unmorah (State Suburbs). Of these 48.5%	were male	e and 51.5% were femal	e. Aboriginal	and/or Torres Strait	
Islander people made up 4.2% of the population.	, , , , , , , , , , , , , , , , , , ,			0		
View the data quality statement for Place of Usual Resid	ence (PURP)					
Age	Lake Munmorah	%	New South Wales	%	Australia	9
Median age	48		38		38	
0-4 years	268	5.1	465,135	6.2	1,464,779	6.
5-9 years	294	5.6	478,184	6.4	1,502,646	6.
10-14 years	282	5.4	443,009	5.9	1,397,183	6.
15-19 years	298	5.7	448,425	6.0	1,421,595	6.
20-24 years	295	5.6	489,673	6.5	1,566,793	6.
25-29 years	255	4.9	527,161	7.0	1,664,602	7.
30-34 years	234	4.5	540,360	7.2	1,703,847	7.
35-39 years	239	4.6	499,724	6.7	1,561,679	6.
40-44 years	252	4.8	503,169	6.7	1,583,257	6.
45-49 years	321	6.1	492,440	6.6	1,581,455	6.
50-54 years	350	6.7	485,546	6.5	1,523,551	6.
55-59 years	354	6.8	469,726	6.3	1,454,332	6.
60-64 years	334	6.4	420,044	5.6	1,299,397	5.
65-69 years	391	7.5	384,470	5.1	1,188,999	5.
70-74 years	433	8.3	292,556	3.9	887,716	3.
75-79 years	341	6.5	217,308	2.9	652,657	2
30-84 years	191	3.6	155,806	2.1	460,549	2
	108	2.1	167.506	2.2	486,842	2

Figure 4: The population of Lake Munmorah

Source: ABS 2016 Census

Figure 5: Ethnic origins of Lake Munmorah residents

Country of birth	Lake Munmorah	%	New South Wales	%	Australia	%
Australia	4,309	82.3	4,899,090	65.5	15,614,835	66.7
Other top responses						
England	223	4.3	226,564	3.0	907,570	3.9
New Zealand	71	1.4	117,136	1.6	518,466	2.2
Scotland	34	0.6	28,579	0.4	119,417	0.5
Netherlands	26	0.5	16,900	0.2	70,172	0.3
Germany	23	0.4	29,541	0.4	102,595	0.4
In Lake Munmorah (State Suburbs), 82.3% of people were bor	n in Australia. The most common co	untries of	birth were England 4.3%	6, New Zeala	nd 1.4%, Scotland 0.	.6%,
Netherlands 0.5% and Germany 0.4%.						

Source: ABS 2016 Census

A search on the Office of Environment and Heritage Aboriginal Heritage Information Management System website found that there is one site with Aboriginal heritage significance within the suburb of Lake Munmorah, located on the northern edge of the lake, adjacent to Anita Avenue. This is some distance from the subject site, with the Pacific Highway and substantial housing development in between. The site is marked with a small green pin near the centre of the map below.

Figure 6: Closest Aboriginal site marked by green pin



Source: OE&H AHIMS

Socio-economic status

The population of Lake Munmorah can be characterised as low socio-economic status.

Socio-Economic Indexes for Areas (SEIFA) is an ABS product that ranks areas in Australia according to relative socio-economic advantage and disadvantage. These indexes are based on information from the five-yearly Census of Population and Housing. SEIFA 2016 was created from Census 2016 data and consists of four indices, each a summary of a different subset of Census variables, each focused on a different aspect of socio-economic advantage. These are:

- the Index of Relative Socio-economic Disadvantage (IRSD);
- the Index of Relative Socio-economic Advantage and Disadvantage (IRSAD);
- the Index of Education and Occupation (IEO); and
- the Index of Economic Resources (IER).

The suburb of Lake Munmorah is:

- in the first and second quintiles of the Index of Relative Socio-economic Disadvantage; that is the most and second most disadvantaged;
- in the first and second quintiles of the Relative Socio-economic Advantage and Disadvantage (IRSAD), that is the most and second most disadvantaged;
- mainly in the first quintile of the Index of Education and Occupation disadvantage; that is the most disadvantaged
- a mix of first, second and third quintiles on the Index of Economic Resources, the subject site being in the middle category (3) area, while residential park residents are more disadvantaged.



Figure 7: Index of Relative Socio-Economic Disadvantage

Source: ABS, based on 2016 Census



Figure 8: Index of Relative Socio-Economic Advantage and Disadvantage

Source: ABS, based on 2016 Census





Source: ABS, based on 2016 Census

Figure 10: Index of Economic Resources



Source: ABS, based on 2016 Census

Education, occupation, income

The population of Lake Munmorah is less well educated than average for NSW, with a much lower proportion having degrees (7.7% compared with 23.4% for NSW overall) and a higher proportion having a Certificate level III as their highest qualification (20.2% compared with 12% for NSW overall).

Lake Munmorah residents are more likely to be employed as technicians or trades workers (18.3% compared with 12.7% for NSW), community or personal services workers (14.6% compared with 10.4% for NSW), labourers (10.8% compared with 8.8% for NSW) or sales workers (10.6% compared with 9.2% for NSW). They are less likely to be professionals (13.5% compared with 23.6 for NSW) or managers (8.6% compared with 13.5% for NSW). The main industries of employment are aged care residential services, hospitals, supermarkets and grocery stores, takeaway food stores and primary education.

Level of highest educational attainment People aged 15 years and over	Lake Munmorah	%	New South Wales	%	Australia	%
Bachelor Degree level and above	339	7.7	1,424,716	23.4	4,181,406	22.0
Advanced Diploma and Diploma level	344	7.9	543,142	8.9	1,687,893	8.9
Certificate level IV	149	3.4	167,947	2.8	551,767	2.9
Certificate level III	885	20.2	730,498	12.0	2,442,203	12.8
Year 12	497	11.3	930,654	15.3	2,994,097	15.7
Year 11	155	3.5	203,574	3.3	941,531	4.9
Year 10	826	18.9	702,178	11.5	2,054,331	10.8
Certificate level II	6	0.1	4,849	0.1	13,454	0.1
Certificate level I	0	0.0	625	0.0	2,176	0.0
Year 9 or below	539	12.3	513,209	8.4	1,529,897	8.0
No educational attainment	3	0.1	54,870	0.9	145,844	0.0
Not stated	505	11.5	627,465	10.3	1,974,794	10.4

Figure 11: Educational attainment

d completed a Certificate III or IV and 7.9% had completed an Advanced Diploma or Diploma.

Source: ABS 2016 Census

Figure 12: Occupation

Occupation Employed people aged 15 years and over	Lake Munmorah	%	New South Wales	%	Australia
Technicians and Trades Workers	365	18.3	429,239	12.7	1,447,414
Community and Personal Service Workers	292	14.6	350,261	10.4	1,157,003
Clerical and Administrative Workers	273	13.7	467,977	13.8	1,449,681
Professionals	269	13.5	7 <mark>9</mark> 8,126	23.6	2,370,966
Labourers	215	10.8	297,887	8.8	1,011,520
Sales Workers	212	10.6	311,414	9.2	1,000,955
Managers	171	8.6	456,084	13.5	1,390,047
Machinery Operators and Drivers	167	8.4	206,839	6.1	670,106

The most common occupations in Lake Munmorah (State Suburbs) included Technicians and Trades Workers 18.3%, Community and Personal Service Workers 14.6% Clerical and Administrative Workers 13.7%, Professionals 13.5%, and Labourers 10.8%.

View the data quality statement for Occupation (OCCP)

Industry of employment, top responses Employed people aged 15 years and over	Lake Munmorah	%	New South Wales	%	Australia
Aged Care Residential Services	81	4.3	67,209	2.0	211,621
Hospitals (except Psychiatric Hospitals)	67	3.6	119,350	3.5	411,808
Supermarket and Grocery Stores	64	3.4	74,487	2.2	254,275
Takeaway Food Services	43	2.3	56,957	1.7	189,447
Primary Education	42	2.2	65,204	1.9	231,198

Of the employed people in Lake Munmorah (State Suburbs), 4.3% worked in Aged Care Residential Services. Other major industries of employment included Hospitals (except Psychiatric Hospitals) 3.6%, Supermarket and Grocery Stores 3.4%, Takeaway Food Services 2.3% and Primary Education 2.2%.

Source: ABS 2016 Census

Lake Munmorah incomes were lower than average for NSW. Median household weekly income was \$1,004 compared with \$1,486 for NSW. A higher proportion of households (25.9%) had gross weekly income below \$650 per week than for NSW overall (19.7%) and a smaller proportion (7.4%) had gross weekly income above \$3,000 than for NSW overall (18.7%).

Figure 13: Income

People aged 15 years and over	Lake Munmorah	%	New South Wales	%	Australia	%
Personal	521		664		662	
Family	1,339		1,780		1,734	
Household	1,004		1,486		1,438	
The median weekly personal income for people aged 15 y Household income	ears and over in Lake Munmorah (State S Lake Munmorah	uburbs) w %	vas \$521. New South Wales	%	Australia	, e
Household income				% 19.7	Australia	20
	Lake Munmorah	%	New South Wales			
Household income Less than \$650 gross weekly income	Lake Munmorah 	% 25.9 7.4	New South Wales 	19.7 18.7	-	20 16

Source: ABS 2016 Census

Health

The most obvious health issue on the Central Coast is people being overweight.

More than 50 percent of adults in the Central Coast Health District are overweight or obese, presumably in consequence of poor diet and inadequate exercise. Many further health issues can flow from being overweight.

Figure 14: Overweight and obesity on the Central Coast



Source: HealthStats NSW

5. Expected growth

Population outlook

The population of the Central Coast LGA is expected to increase from 342,548 in 2018 to 414,615 by 2036; that is by 21 percent.

However, the population of the Lake Munmorah – Chain Valley Bay area is expected to increase from 8,618 in 2018 to 15,328 by 2036; that is by 77 percent. The population density of Lake Munmorah – Chain Valley Bay is expected to increase in this period from 2.78 people per hectare to 5.02 people per hectare.

Figure 15: Expected population growth on Central Coast and Lake Munmorah



Source: Central Coast Council website

Current and projected housing needs on the Central Coast

In keeping with the expected growth in population, the development forecast is that, between 2016 and 2036, the number of dwellings on the Central Coast overall will increase by 26.2 percent, but in the Lake Munmorah – Chain Valley Bay area, they will increase from 3,883 to 7,230, that is by 86.2 percent.

Forecast dwellings and development					export	reset 😏	
Central Coast Council area	20	16	20	36	Change between 2016 and 2036		
Area	Number \$	% \$	Number \$	% \$	Number \$	% 🖨	
Central Coast Council area	145,958	100.0	184,129	<mark>1</mark> 00.0	+38, <mark>17</mark> 1	+26.2	
Lake Munmorah - Chain Valley Bay	3,883	2.7	7,230	3.9	+3,347	+86.2	

Figure 16: Development forecast

Source: Central Coast Council website

Current and future households in Lake Munmorah

At the 2016 Census, while most homes in Lake Munmorah (69.3%) were family households, more than a quarter (28.3%) had a single occupant.

Figure 17: Households in Lake Munmorah

Household composition	Lake Munmorah	%	New South Wales	%	Australia	%
Family households	1,434	69.3	1,874,524	72.0	5,907,625	71.3
Single (or lone) person households	586	28.3	620,778	23.8	2,023,542	24.4
Group households	48	2.3	109,004	4.2	354,917	4.3

Source: ABS, 2016 Census

Homes in Lake Munmorah are virtually all (98.3%) separate houses, but they vary substantially in value. The most common number of bedrooms is three (40.5%) and more than a quarter (28.5%) have four bedrooms or more. Less than a quarter (22.6%) have only two bedrooms and very few (4.4%) have only one bedroom or are bed-sitters.

In 2016, almost half of Lake Munmorah residents (48%) owned their homes outright and a further third (31.6%) were paying them off. Median monthly mortgage repayments (\$1,600) were lower than that for NSW (\$1,968) and only a small minority were spending 30% or more of household income on mortgage repayments.

In 2016, only a small minority (16.7%) were renting. Median weekly rent (\$320) was lower than that for NSW (\$380) and few (7.4%) were paying 30% of household income or more on rent.

Figure 18: Housing in Lake Munmorah

Dwelling structure Occupied private dwellings	Lake Munmorah	%	New South Wales	%	Australia	%
Separate house	2,037	98.3	1,729,820	66.4	6,041,788	72.9
Semi-detached, row or terrace house, townhouse etc	8	0.4	317,453	12.2	1,055,016	12.7
Flat or apartment	24	1.2	519,390	19.9	1,087,434	13.1
Other dwelling	0	0.0	23,580	0.9	64,425	0.8

Of occupied private dwellings in Lake Munmorah (State Suburbs), 98.3% were separate houses, 0.4% were semi-detached, row or terrace houses, townhouses etc, 1.2% were flat or apartments and 0.0% were other dwellings.

View the data quality statement for Dwelling structure (STRD)

Number of bedrooms Occupied private dwellings	Lake Munmorah	%	New South Wales	%	Australia	%
None (includes bedsitters)	11	0.5	17,157	0.7	39,769	0.5
1 bedroom	80	3.9	157,194	6.0	411,252	5.0
2 bedrooms	489	23.6	577,675	22.2	1,562,759	18.9
3 bedrooms	839	40.5	970,001	37.2	3,403,190	41.1
4 or more bedrooms	591	28.5	816,405	31.3	2,670,758	32.2
Number of bedrooms not stated	61	2.9	65,888	2.5	198,351	2.4
Average number of bedrooms per dwelling	3		3		3.1	
Average number of people per household	2.4		2.6		2.6	

In Lake Munmorah (State Suburbs), of occupied private dwellings 3.9% had 1 bedroom, 23.6% had 2 bedrooms and 40.5% had 3 bedrooms. The average number of bedrooms per occupied private dwelling was 3. The average household size was 2.4 people.

View the data quality statements for: Number of bedrooms in a private dwelling (BEDD) Number of persons usually resident in dwelling (NPRD)

Tenure Occupied private dwellings	Lake Munmorah	%	New South Wales	%	Australia	%
Owned outright	1,000	48.0	839,665	32.2	2,565,695	31.0
Owned with a mortgage	658	31.6	840,004	32.3	2,855,222	34.5
Rented	347	16.7	826,922	<mark>31.</mark> 8	2,561,302	30.9
Other tenure type	10	0.5	23,968	0.9	78,994	1.0
Tenure type not stated	67	3.2	73,763	2.8	224,869	2.7

Of occupied private dwellings in Lake Munmorah (State Suburbs), 48.0% were owned outright, 31.6% were owned with a mortgage and 16.7% were rented.

	COM 10		- COL 34.			
Rent weekly payments	Lake Munmorah	%	New South Wales	%	Australia	%
Median rent	320		380		335	
Households where rent payments are less than 30% of household income	-	92.6		87.1		88.
Households with rent payments greater than or equal to 30% of household income	-	7.4	-	12.9	-	11.8
Mortgage monthly repayments	Lake Munmorah	%	New South Wales	%	Australia	%
Median mortgage repayments	1,600		1,986		1,755	
Households where mortgage repayments are less than 30% of household income		94.4		92.6		92.8
Households with mortgage repayments greater than or equal to 30% of household income	-	5.6		7.4	-	7.2

Source: ABS, 2016 Census

ABS projections suggest that, while family households will continue to be the dominant type, will be greater proportional increase in sole occupant households will be greater (61-65%). In effect, there will be greater demand for smaller houses.

Figure 19: Demand for lone person housing will increase

LONE PERSON HOUSEHOLDS

Although family households show the greatest numeric increase, lone person households are projected to show the greatest percentage increase over the 25-year projection period. The number of lone person households is projected to increase by between 61% and 65% (1.3 million households), from 2.1 million households in 2011 to between 3.3 million and 3.4 million households in 2036. This increase primarily reflects changes in the age structure of the population and the fact that older women in particular are more inclined to be living alone than other people.

Source: ABS Household and Family Projections, Australia, 2011 to 2036

There has already been substantial residential development in Lake Munmorah near the subject site.





Source: Central Coast Council website

Homes in residential parks (that do not include the land they stand on) are generally priced in the \$150 - \$200,000 range.



Figure 21: Residential park houses for sale or recently sold in Lake Munmorah

Source: https://www.allhomes.com.au/sale/lake-munmorah-nsw-2259/

Homes with land for sale in Lake Munmorah range in price from just under \$400,000 to just under \$1,000,000.

Figure 22: Houses for sale in Lake Munmorah October-November 2018

New parks	\$170,000 46/750 Pacific Highway Lake Munmorah NSW 2259 House - 2日 1日 2日	Next inspection: Sat, 10 Nov 3:30 pm New To Market 2 Karoola Avenue Lake Munmorah NSW 2259 House - 2 📋 1 🔓 2 🖨
	Next inspection: Sat, 10 Nov 10:00 am Price Guide \$380,000 - \$400,000 33 Woodbridge Crescent Lake Munmorah NSW 2239 House - 3 1 5 1 0	Next inspection: Sat, 10 Nov 10:00 am \$410,000 - \$450,000 6 Dianne Avenue Lake Munmorah NSW 2259 House - 2 🖻 2 🗄
	\$380,000 - \$410,000 2 Berkley Court Lake Munmorah NSW 2259 House - 3 ⊟ 1 ⊕ 1 ⊕ [™] EER: 0.0	Next inspection: Sat, 10 Nov 11:00 am \$419,000 26 Fay Street Lake Mummorah NSW 2259 Duplex - 3 🖻 1 🔓 1 🖨
	\$420,000 210/2 Saliena Avenue Lake Munmorah NSW 2259 House - 2 戸 2 戸 2 戸 ⓒ EER:0.0	\$465,000-\$510,000 26A Fay Street Lake Munmorah NSW 2259 House - 3 ≧ 2 ⊆ 1 @
	Next inspection: Sat, 10 Nov 3:00 pm \$455,000 Lot 182/6 Kangaroo Ave Lake Munmorah NSW 2259 House - 3 ☐ 1 ☐ 1 ⊖	Next inspection: Sat, 10 Nov 11:00 am Price Guide \$499,990 3 Radford Place Lake Munmorah NSW 2259 House - 3 1 5 20
	\$460,000-\$495,000 16 Kangaroo Avenue Lake Munmorah NSW 2259 House - 3 晋 1 告 1 命	\$559,000 7 Arcadia Avenue Lake Munmorah NSW 2259 House - 3 日 2 丘 1 白
	\$465,000 18 Delavia Drive Lake Munmorah NSW 2259 House - 3	Buyers Guide \$596,000 to \$655, 1a Annabel Avenue Lake Munmorah NSW 2259 House - 2 ⊟ 3 ⊆ 6 ⊕
	\$625,000 33 Fortune Crescent Lake Munmorah NSW 2259 House - 3 局 1 ᡖ 2 ᡚ	Next inspection: Sat, 10 Nov 12:00 pm OFFERS INVITED 31 Anita Avenue Lake Munmorah NSW 2259 House + 4 (a) 2 (b) 2 (c) (c) EER: 0.0
	Next inspection: Sat, 10 Nov 10:00 am \$649,000 - \$685,000 11 Elizabeth Bay Drive Lake Mummorah NSW 2259 House - 5	\$895,000-\$945,000 20 Anita Avenue Lake Mummorah NSW 2259 House - 4 ⊟ 3 ⊆ 2 ⊕

Source: https://www.allhomes.com.au/sale/lake-munmorah-nsw-2259/

Houses in the streets closest to the subject site, in Kemira Avenue, Kookaburra Avenue and Wallaby Street are all separate family homes with land. There is a mix of single storey and two storey houses, ranging from older and more modest fibro-cement weatherboard homes to more modern and substantial brick homes. All are well maintained and appear occupied.



Figure 23: Houses in nearby Kemira, Kookaburra and Wallaby streets



6. Services in the area

Schools

While at the 2016 Census the proportion of families in Lake Munmorah that included children was lower than average for NSW (35.4% compared with 45.7%) and the proportion of families without children was higher (47.8% compared with 36.6%), this is due to the large number of retirement villages in the suburb. It is likely that residents of the proposed development will more closely resemble those in nearby streets and NSW overall, in having more families with children.

Figure 24: Families with and without children

Family composition	Lake Munmorah	%	New South Wales	%	Australia	%
Couple family without children	704	47.8	709,524	36.6	2,291,987	37.8
Couple family with children	521	35.4	887,358	45.7	2,716,224	44.7
One parent family	231	15.7	310,906	16.0	959,543	15.8
	1-1	1.2	32,438	1.7	102,559	1.7
Dther family Of the families in Lake Munmorah (State Suburbs), 35.4% wer amilies. /iew the data quality statement for Family composition (FMCF)						
Of the families in Lake Munmorah (State Suburbs), 35.4% wer amilies.	e couple families with children, 47.8	% were c	ouple families without ch	ildren and 15.	7% were one paren	t
Of the families in Lake Munmorah (State Suburbs), 35.4% wer amilies. /iew the data quality statement for Family composition (FMCF)	e couple families with children, 47.8					
Of the families in Lake Munmorah (State Suburbs), 35.4% wer amilies. /iew the data quality statement for Family composition (FMCF) Single (or lone) parents	e couple families with children, 47.8	% were c	ouple families without ch	ildren and 15.	7% were one paren	t

Source: ABS 2016 Census

At 2016 Census, just over one quarter (26.6%) of Lake Munmorah residents were attending an educational institution. Of these, 6.7% were in pre-school, 28.2% were in primary school, 22.2% were in secondary school and 15.6% were in tertiary or technical education. If the residents of the proposed development are consistent with 2016 demographics, places will be needed for about 200 students: roughly 14 pre-schoolers, 55 public primary school students, 26 Catholic primary school students, 46 public high school students, 14 Catholic high school students and 47 TAFE or university students. The actual number attending an educational institution may be a bit higher because the Lake Munmorah figures are affected by the large number of retirement village residential parks in the area.

Figure 25: In education

Education	Lake Munmorah	%	New South Wales	%	Australia	%
Preschool	93	6.7	132,047	5.7	347,621	4.8
Primary - Government	253	18.3	417,465	18.0	1,314,787	18.2
Primary - Catholic	119	8.6	122,099	5.3	380,604	5.3
Primary - other non Government	15	1.1	67,611	2.9	231,490	3.2
Secondary - Government	213	15.4	269,249	11.6	827,505	11.5
Secondary - Catholic	65	4.7	117,689	5.1	338,384	4.7
Secondary - other non Government	23	1.7	79,915	3.4	280,618	3.9
Technical or further education institution	94	6.8	144,103	6.2	424,869	5.9
University or tertiary institution	122	8.8	376,133	16.2	1,160,626	16.1
Other	27	1.9	63,673	2.7	198,383	2.8
Not stated	362	26.1	535,266	23.0	1,707,023	23.7

Source: ABS, based on 2016 Census

As well as pre-schools, there are four schools in Lake Munmorah, all close to the site:

- Lake Munmorah Public School
- Lake Munmorah High School
- St Brendan's Catholic Primary School
- St Brigid's Catholic College.

Figure 26: Lake Munmorah, showing nearby schools and pre-school



Pre-schools

Lake Munmorah Pre-school provides pre-school education and care to children from two years to school age. They currently have 30 children enrolled and a short waiting list.

Good Start Early Learning Centre provides pre-school and care for children up to school age, including babies. Currently they have 70 enrolments, which is close to capacity.

St Brendan's Early Learning Centre has capacity to take 60 children aged 3 to 6 years and is currently full. The give priority to the children of Catholic parents.

Lake Munmorah Public School provides some pre-school classes for children with special needs. Currently 15 children are enrolled in these classes.



Figure 27: Pre-schools in Lake Munmorah

Primary schools

Lake Munmorah Primary School currently has about 450 students enrolled and one vacant classroom. In the past 600 students have been enrolled, so increased enrolment is possible, using demountable classrooms if necessary. Forty six additional students would not present a problem. Lake Munmorah Primary School also provides three classes for children with special needs.

St Brendan's Catholic Primary School currently has 495 students and has some capacity to expand. There is more room for additional students in some classes than in others. Catholic children are given priority in enrolments.



Figure 28: Primary schools in Lake Munmorah

High schools

Lake Munmorah High School currently has almost 742 students enrolled for 2019. In 2007, prior to the opening of St Brigid's Catholic High School next door, the enrolment was 957, so there is definitely capacity to absorb another 45-50 students. students

St Brigid's Catholic College has more than 300 students currently enrolled and is a growing school that can accommodate up to 800 students.

Figure 29: High schools in Lake Munmorah



Technical and tertiary education

TAFE has campuses in Newcastle and Ourimbah, offering a wide range of as well as online courses.

- Hairdressing and beauty training academy, open to the public
- Massage training clinic, open to the public
- Design Centre Hunter, featuring:
 - Purpose designed gallery
 - Collaborative design workspaces
 - Industrial design workshop
 - Hunter Maritime College, featuring:
 - State-of-the-art simulated engine room
 - Ship bridge simulator
 - Replicated engine control room
 - Heat engine lab
 - Fully operational auxiliary boiler system
- Newcastle Knights study hub, featuring:
 - Foundation media skills
 - Governance in sport
 - Skills exchange
 - Staff development skills
 - Work placements
 - Access to TAFE facilities for National Youth Cup players
- Regional Music Institute, featuring:
 - 2 state-of-the-art recording studios with:
 - SSL Duality analogue/digital desk
 - AVID S6 post production desk, capable of producing 360 degree sound
 - 2 Mac computer labs with 35 computers, Pro Tools Version 12 HD, Mini keyboards
 - Large performance space with Vertec QL PA system
 - Portable foley sound pit
 - Regional Institute of Performing Arts, featuring:
 - Drama/dance studio with Dance floor, Dance barres, Full-length mirrors, AV system
 - Writers room
 - 4 flexible rehearsal rooms for music, dramatic performances and screen work
 - Costume and props room

Figure 30: TAFE campuses



The University of Newcastle, with a Wyong campus, as well as Newcastle, includes:

- Faculty of Business and Law;
- Faculty of Education and Arts;
- Faculty of Engineering and Built Environment;
- Faculty of Health and Medicine;
- Faculty of Science;
- English Language and Foundation Studies Centre.

Figure 31: University of Newcastle

		Library Current Stu	dents Curren	t Staff	Search	Q
THE UNIVERSITY OF NEWCASTLE AUSTRALIA	Study	Research and Innovation	Industry	International	Community and Alumni	About UON
Home > About UON > Gov		dership > Faculties and schools Faculties a	nd scho	ols		
Faculty of Business and Law Faculty of Education and Arts Faculty of Engineering and Built			The Fac	culty of Business and	Law delivers innovative degree p	
Faculty of Health and Medicine			Facult	s and stakeholders a Ity homepage castle Business Scho	nd actively generate knowledge a	cross their specialist areas.
Faculty of Science	on Studies Centre			castle Law School		
		TOTAL	-		tion and Arts	Activate Windov Go to Settings to activ
					d Arts offers innovative undergrad t provides a vibrant and exciting s	

Medical and allied health services

Coastal Lakes Medical Practice is located in the adjacent shopping centre and provides a bulk-billing service. Currently there are four doctors and another will soon join the team. There is space for seven, so more doctors can be added to meet increased demand.

Laverty Pathology Services are adjacent and there is also a Pharmacy, an Optometrist and an Accupuncture and Massage practice in the same shopping centre.

Lake Munmorah Doctors' Surgery and Medical Practice has 10 doctors and is also nearby, on the other side of the Pacific Highway at the intersection with Queen Street.

Figure 32: Medical and other health services in the adjacent shopping centre



In Elizabeth Bay Drive, there is a dental practice, a physiotherapist and a counselling service. There is another pharmacy and another pathology collection centre in Anita Avenue, on the bus route; a natural medicine practice in Fay Street and a physiotherapy clinic in Gardenia Close. The Budgewoi Medical Practice is 5 minutes away by car.

Wyong Hospital is 15 minutes away by car. Gosford Hospital and North Gosford Private Hospital are 30 minutes away.



Figure 33: Further health services

Shopping

The adjacent shopping centre currently offers shops to meet regular household needs:

- A Woolworths supermarket, with adjacent BWS bottle shop;
- Newcastle Permanent branch and ATMs for Commonwealth and ANZ banks;
- Newsagent with Australia Post agency;
- Super Dollar household items store;
- Tobacconist;
- Hair salon;
- Bakery;
- A range of affordable café dining and take-away food options:
 - o an Indian and kebab restaurant
 - o a pan-Asian restaurant
 - A sit down coffee shop
 - o takeaway coffee, sushi, sandwiches and other snack stands;
- adjacent petrol station;
- recyclables return station and DVD rental.







Figure 35: Banking, post box, DVD hire, recycling, petrol



Figure 36: Cafés and take away food outlets

Churches

At the 2016 Census, more than half of the population of Lake Munmorah was Christian (57.5%), mainly Anglican (28.5%) or Catholic (25.7%), with a few Uniting Church (3.3%). Almost a third said "No religion" (24.1%) or gave no answer (7.7%).

Figure 37: Religious affiliation

Religious affiliation, top responses	Lake Munmorah	%	New South Wales	%	Australia	%
Anglican	1,495	28.5	1,161,810	15.5	3,101,185	13.3
Catholic	1,347	25.7	1,846,443	24.7	5,291,834	22.6
No Religion, so described	1,263	24.1	1,879,562	25.1	6,933,708	29.6
Not stated	406	7.7	684,969	9.2	2,238,735	9.6
Uniting Church	172	3.3	217,258	2.9	870,183	3.7

Source: ABS 2016 Census

There are churches serving various Christian denominations in or near Lake Munmorah. They include:

- St Brendan's Catholic Church, St Mary Mackillop's at Warnervale
- St John's Anglican at Budgewoi and Anglican Church of Australia in Wyong
- Seventh Day Adventist Church at Wyee
- Bethshan Community Church at Wyee
- Wyong Baptist Church and another at Doyalson
- Church of Jesus Christ of the Latter Day Saints at Kanwal
- Northern Lakes Evangelical Church at Tumbi Umbi
- C3 Church at Tuggerah
- Central Life Christian Church at Woongarrah
- Salvation Army School for Youth Leadership in Lake Munmorah
- New Hope Community Church at Caves Beach
- Gateway Church at Pelican.

Bethshan Community Church Wyee = churches near Lake Munmorah Seventh-Day Adventist Church Wyee Showing all results for churches near Lake Munmorah NSW Saint Brendan's Catholic Church A43 3 Dooralong Doy Chool for Youth A43 Lake Mun 13 Jilliby State Saint John's Anglican Church Budgewoi Halloran Northern Lakes Saint Mary Mackillop's Catholic **Evangelical Church** 13 Central Life Christian Church A49 • The Church of Jesus Christ of Latter... Catholic Church atanobbi Wyong Creek D Wyong Baptist Church 2 Wyong Norah Head C3 Church Tuggerah

Figure 38:Churches in or near Lake Munmorah

Source: Google maps

Recreational opportunities in the area

It has recently been announced that a regional recreation facility, including a skate park, a play space, passive recreation and environment prtection areas will be built on Tall Timbers Road in Lake Munmorah, opposite the shopping centre and very close to the subject site.

Munmorah United Bowling Club is 2 minutes away in Acacia Avenue. Halekulani Bowling Club is 5 minutes away in Budgewoi, Toukley RSL Bowling Club is 10 minutes away and there is another bowling club at Gwandalyn. There are tennis courts in Colongara Road, behind the Munmorah Bowling Club. Doyalson-Wyee RSL Club is 3 minutes away. Toukley Golf Course is 10 minutes away and Wyong Golf Course is 17 minutes away.

The site is close to the Munmorah State Conservation Area and three beautiful lakes that provide bush walking, boating, fishing and picnicking opportunities. Lake Munmorah is 2 minutes away, Lake Macquarie is 5 minutes away and Budgewoi Lake is 6 minutes away. The site is also close to many beautiful beaches, including Budgewoi Beach, Birdie Beach, Frazer Beach, Lakes Beach and Soldiers Beach at Norah Head is 14 minutes away.

There are heated pools at Toukley 10 minutes away and in Wyong 20 minutes away and the Mingara Club Complex, 25 minutes away, includes extensive aquatic, gym and bowling facilities as well as dining and entertainment areas.

There is an Athletic Track at Warnervale, 12 minutes away. There is a Senior Citizens Centre in Acacia St and a Community Hall in Colongara Road.

Figure 39: Recreational opportunities in the area



Source: relevant websites


Figure 40: Regional recreational park at Lake Munmorah announced

Transport

Most residents of Lake Munmorah drive cars. According to ABS figures, only 5% of Lake Munmorah households have no car; 45% have one car, 31.5% have two cars and 15% have three cars or more. However, schools, shops, a medical practice and some other services are within walking distance and several bus routes pass the site:

- 95: Lake Haven Gwandalan Lake Munmorah Morisset
- 95X: Lake Haven Gwandalan Lake Munmorah Wyee
- 98: Lake Haven Blue Haven Chain Valley Bay
- 99: Lake Haven Blue Haven Gwandalan Swansea Charlestown

Camerade Worgarrate Wo

Figure 41: Bus routes in the area

Figure 42: Bus route 95

CURRENT TIMETABLE	VIEW ROUTE MAP
Current timetable effective from Sunday 30th September 2018	STAY UPDATED
VIEW TIMETABLE >	
(Adobe Acrobat Reader required to view PDF)	ORDER BY POST
ROUTE DESCRIPTION	
From Lake Haven to Morisset	
Summerland Rd (L) Kanangra Dr (R) Orana Rd (R) Winbin	
Rd (L) Kanangra Dr (R) Pacific Hwy (R) Chain Valley Bay R (R) Kaniola Ave (L) Houston Ave (R) Chain Valley Bay Rd (R) I faregagiin Dr (R) Mulloway Rd (R) Chain Valley Bay Rd (R) I Rosemount Ave (R) Terence Ave (L) Anita Ave (R) Boronia Rd (R) Lakeshore Ave (R) Karoola Ave (L) Tail Timbers Rd Lloyd Ave (R) Elabana Ave (R) Scaysbrook Dr (L) Tail Timbers Rd (R) Vales Rd (L) Greenway Ave (R) Macquarie Ave (R) V Rd (R) Griffith St (R) Catherine St (L) Vales Rd (R) Rutlieys Rd (R) Bay St (R) Bay St (R) Government Rd (R) Rutlieys Rd Doyalson St (R) Yambo St (R) Short St through to Morisset	d (L) Houston Ave (R) Findlay Ave S) Mullovay R4 (L) Trevally Ave (R) Pacific Hwy (L) Elizabeth Bay Dr (R) Rd (L) Pacific Hwy (R) Tall Timbers (L) Scaysbrook Dr (L) Ivy Ave (R) ers Rd (R) Pacific Hwy (R) Rutleys Maveriy Rd (R) Vales Rd (L) Spence Rd (R) Government Rd (L) High St (L) Wyee Rd (R) Dota St (L)
Rd (L) Kanangra Dr (R) Pacific Hwy (R) Chain Valley Bay Rd (F) Karola Ave (L) Houston Ave (R) Chain Valley Bay Rd (F) Toragalin Dr (R) Mullovay Rd (R) Chain Valley Bay Rd (R) Rosemount Ave (R) Terence Ave (L) Anita Ave (R) Boronia Rd (R) Lakeshore Ave (R) Karoola Ave (L) Tall Timbers Rd Lloyd Ave (R) Elabana Ave (R) Scaysbrook Dr (L) Tall Timb Rd (R) Valles Rd (L) Government Rd (R) Ruttleys Rd (R) Bath St (R) Bay S	d (L) Houston Ave (R) Findlay Ave S) Mullovay Rd (L) Trevally Ave (R) Pacific Hwy (L) Elizabeth Bay Dr (R) Rd (L) Pacific Hwy (R) Tall Timbers (L) Scaysbrook Dr (L) Ivy Ave (R) Warely Rd (R) Vales Rd (L) Spence Rd (R) Government Rd (L) High St (L) Wyee Rd (R) Dora St (L)

	Weekdays
First Bus	
Lake Haven Shops	07:00
Last Bus	
Lake Haven Shops	16:17
Frequency	
am peak	2 trips
pm peak - Busways reserves the right to sub f operational circumstances dictate. ROUTE FREQUENCY - OPPOSITE	1 trip stitute a non-accessible bus on trips marked accessible
 Busways reserves the right to sub operational circumstances dictate. ROUTE FREQUENCY - OPPOSITE 	
 Busways reserves the right to sub operational circumstances dictate. ROUTE FREQUENCY - OPPOSITE 	stitute a non-accessible bus on trips marked accessible
- Busways reserves the right to sut f operational circumstances dictate. ROUTE FREQUENCY - OPPOSITE First Bus	stitute a non-accessible bus on trips marked accessible
- Busways reserves the right to sub f operational circumstances dictate. ROUTE FREQUENCY - OPPOSITE First Bus Morisset Station Last Bus	stitute a non-accessible bus on trips marked accessible Weekdays 09:00
- Busways reserves the right to sub toperational circumstances dictate. ROUTE FREQUENCY - OPPOSITE First Bus Morisset Station Last Bus	stitute a non-accessible bus on trips marked accessible Weekdays
- Busways reserves the right to sut f operational circumstances dictate. ROUTE FREQUENCY - OPPOSITE First Bus Morisset Station Last Bus Morisset Station	stitute a non-accessible bus on trips marked accessible Weekdays 09:00
 Busways reserves the right to sub f operational circumstances dictate. 	stitute a non-accessible bus on trips marked accessible Weekdays 09:00

For those travelling to Sydney or Newcastle, there are railway stations at Wyee and Morisset, accessible by bus, and at Wyong, accessible by car.

Figure 43: Bus routes 95X, 98 and 99

	KE MUNMORAH - WYEE	First Bus		Weekda	iys
CURRENT TIMETABLE Current timetable effective from	VIEW ROUTE MAP	Lake Haven Shops		05:10	
Sunday 30th September 2018 VIEW TIMETABLE >	STAY UPDATED	Last Bus Lake Haven Shops		05:10	
(Adobe Acrobat Reader required to view PDF)	ORDER BY POST	Frequency			
ROUTE DESCRIPTION		am peak pm peak		1 trip -	
From Lake Haven to Wyee From Lake Haven Shops (R) Goobarabah Ave (R) Lake Hav Kanangra Dr (L) Summerland Rd (L) Yeramba Rd (R) Cams	Bvd (L) Ginganup Rd (R)	 Busways reserves the if operational circumstances 	right to substitute a no dictate.	n-accessible bus or	n trips marked accessibl
Government Rd (R) Summerland Rd (L) Kanangra Dr (R) Or Rd (R) Parraweena Rd (L) Kanangra Dr (R) Pacific Hwy (L) Ave (R) Terrence Ave (L) Anita Ave (R) Boronia Rd (L) Pacifi Station.	Elizabeth Bay Dr (R) Rosemount	ROUTE FREQUENCY - OP	POSITE	Weekda	
From Wyee to Lake Haven		First Bus			iys
From Wyee Station, Wyee Rd (L) Ruttleys Rd (L) Pacific Hw Terence Ave (L) Rosemount Ave (L) Elizabeth Bay Rd (L) Ka Yeramba Rd (R) Cams Bvd (L) Ginganup Rd (R) Governmer Kanangra Dr (R) Orana Rd (R) Winbin Cd (L) Gamban Rd ((R) Pacific Hwy (L) Lake Haven Dr (L) Gobarabah Ave (L)	inangra Dr (L) Summerland Rd (L) ht Rd (R) Summerland Rd (L) _) Parraweena Rd (L) Kanangra Dr	Wyee Station Last Bus Wyee Station		19:35 19:35	
(L) means bus turns left, (R) means bus turns right.		Frequency			
		am peak pm peak		- 1 trip	
		ROUTE FREQUENCY			
ROUTE 98: LAKE HAVEN - BLUE HAVEN - CHA	IN VALLEY BAY	First Bus	Weel	days	Saturday
CURRENT TIMETABLE Current timetable effective from	VIEW ROUTE MAP	Lake Munmorah (Elizabeth Acacia Ave)	Bay Dr & 04:56		07:54
Sunday 30th September 2018 VIEW TIMETABLE >	STAY UPDATED	Last Bus Lake Munmorah (Elizabeth	Pay Dr 8		
(Adobe Acrobat Reader required to view PDF)	ORDER BY POST	Acacia Ave)	L16:5	13	07:54
ROUTE DESCRIPTION		Frequency am peak	30-60) mins	1 trip
From Lake Haven to Chain Valley Bay Outwards from Lake Haven (R) Goobarabah Ave (R) Lake I		pm peak	30-60	mins	
Bokhara Ave (L) Colorado Dr (L) Lady Laurel Dr (L) Kawann (R) Roper Rd (L) Pacific Hwy (L) Lights noth Pacific Hwy (L) Ave (L) Ivy Ave (R) Lloyd Ave (R) Elabana Ave (R) Scaysbr Lakebrora Ave (R) Karoola Ave (L) Tall Timbers Rd (L) Pac (R) Terence Ave (L) Rosemount Ave (L) Elzabeth Bay Dr (F Rd (L) Mulloway Rd (L) Trevally Ave (R) Teragalin Dr (R) M (L) Houston Ave (R) Findaly Ave (R) Karolas SL (L) Houston	a Ave (R) Turner CI (R) McKellar Bvd) Tall Timbers Rd (R) Scaysbrook sock Ave (R) Tall Timbers Rd (R) fic Hwy (R) Boronia Rd (L) Anita Ave R) Pacific Hwy (L) Chain Valley Bay Jloway Rd (L) Chain Valley Bay Rd	L - Omits Lake Munmorah L - Omits Lake Munmorah tie I operational circumstances ROUTE FREQUENCY - OPI	ight to substitute a nor dictate.	n-accessible bus on	trips marked accessible
From Chain Valley Bay to Lake Haven			Weekdays	Saturday	Sunday & Public Holidays
From Houston Ave (R) Findlay Ave (R) Kariola St (L) Houst	on Ave (R) Chain Valley Bay Rd (R)	First Bus			
Mulloway Rd (L) Trevally Ave (R) Teragalin Dr (R) Mulloway Pacific Hwy (L) Elizabeth Bay Dr (R) Rousemount Ave (R) 1 Boronia Rd (L) Pacific Hwy (R) Tall Timbers Rd (R) Lakesho	erence Ave (L) Anita Ave (R)	All Services	04:41	07:39	08:25
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It seems likely that many children will walk to school or ride pushbikes, since they are very close, but there are also school specific buses bringing children from other suburbs to the four schools in Carters Road and many of them pass the subject site on the way (2196, 2197, 2198, 2199, 2200 in the morning 2795, 2796, 2798, 2799 in the afternoon).

Figure 44: School bus services

ORNIN	IG			
Bus Number	Route Number	Time	Locations Serviced	Route Description
2197	0	7:23 AM	Wyee Wyee Point Mannering Park	Departs Wyee Station via Wyee Rd (R)Ruttleys Rd (L)Government Rd (L)High St (R)Bath St (R)Bay St (R)Government Rd (L)Ruttleys Rd (L)Vales Rd (L)Greenway A (R)Macquaire Rd (R)Waverley Rd (R)Vales Rd (L)Spencer Rd (R)Griffith St (R)Catherine St (L)Vales Rd (L)Ruttleys Rd (L)Pacific Hwy (L)Carters Rd to St Brigid's Catholic College (8:01am) then to School.
2199	*	7:24 AM	Buff Point San Remo	Departs Elouera Av & Narambi Rd via Narambi Rd (R)Buff Point Av (R)Girraween S (L)Central Coast Hwy (L)Wills Rd (7:32am) (L)Richardson Rd (R)Goorama Av (7:38am) (R)Pacific Hwy (R)Pacific Hwy (7:43am) (R)Wentworth Av (R)Denham St (R)Barton Rd (L)Wentworth Av (R)Pacific Hwy (L)Carters Rd to Lake Munmorah Hig School (7:58am) then to School.
2200	•	7:29 AM	Halekulani Budgewoi	Departs Central Coast Hwy & Woolana Av via Woolana Av (R)Lilo Av (R)Sunrise Av (L)Natuna Av (7:37am) (R)Noela PI (L)Central Coast Hwy (L)Ourringo St (7:43am), Mimosa Rd, Elizabeth Bay Dr (7:48am) (L)Rosemount Av (R)Terronc Av (L)Anita A (R)Boronia Rd (R)Pacific Hwy (L)Catters Rd to Lake Munmorah High School (7:55am) then to School.
2194	*	7:30 AM	Gwandalan	Departs Kanangra Fire Station via Kanangra Dr (R)Orana Rd (R)Winbin Cr (L)Gamban Rd (R)Parraweena Rd (7:37am) (L)Kanangra Dr (R)Pacific Hwy (R)Carters Rd to School.
2134	24 24	7:31 AM	*Budgewoi *Halekulani *Buff Point *San Remo Doyalson	* STUDENTS BOARD CENTRAL COAST HWY ONLY Departs Central Coast Hwy & Main Rd via Central Coast Hwy (R)Pacific Hwy to Ruttleys Rd (7:48am) continues Pacific Hwy to Carters Rd (7:54am). SETS STUDENTS DOWN AT PACIFIC HWY & CARTERS RD
2188	-	7:37 AM	Chain Valley Bay North	Departs Houston Av & Kariola St via Houston Av (R)Findlay Av (R)Kariola St (L)Houston Av (R)Chain Valley Bay Rd (R)Mulloway Rd (7:43am) (L)Trevally Av (R)Teragalin Dr (R)Mulloway Rd (R)Chain Valley Bay Rd (R)Pacific Hwy (R)Carters Rd to Lake Munmorah High School (7:50am) then to school.
2196		7:37 AM	Chain Valley Bay South	Departs Tail Timbers Rd & Lakeshore Av via Tail Timbers Rd (R)Lakeshore Av (R)Karoola Av (L)Tail Timbers Rd (L)Scaysbrook Av (7:43am) (L)vy Av (R)Lloyd Av (R)Elabana Av (R)Scaysbrook Av (L)Tail Timbers Rd (L)Pacific Hwy (L)Carters Rd tr School.
2195		7:42 AM	Summerland Point	Departs Yeramba Rd & Summerland Rd via Yeramba Rd (R)Illawong Rd (L)Warrina Av (L)Muraban Rd (R)Indra Av (R)Kullaroo Rd (L)Cams Bvd (7:49am) (L)Ginganup Rd (R)Government Rd, Summerland Rd (R)Kanangra Dr (R)Pacific Hwy (R)Carters Rd to School.
2198	40 10	7:49 AM	Blue Haven	Departs Bokhara Av & Pacific Hwy via Bokhara Av (L)Colorado Dr (L)Lady Laurel D (7:53am) (L)Kawana Av (R)McKellar Bvd (R)Roper Rd (L)Pacific Hwy (R)Pacific Hw (L)Carters Rd to School.

AFTERNOON

Bus Number	Route Number	Time	Locations Serviced	Route Description
2799		2:35 PM	Lake Munmorah Budgewoi Halekulani	Departs School via (R)Carter Rd to St Brendan's Primary School (2:36pm) (L)Carters Rd (R)Pacific Hwy (L)Boronia Rd (L)Anta V(R)Ferance Av (L)Rosemout Av (2:49pm) (R)Elizabeth Bay Dr, Mirnosa Rd (2:56pm), Ourringo St (R)Central Coast Hwy (R)Notea Pt (L)Natuna Av (R)Sunrise Av (L)Lilo Av (L)Woolana Av to Central Coast Hwy (3:1*1pm).
	98	2:35 PM	Chain Valley Bay South Kingfisher Shores	Departs School via (R)Carters Rd to St Brendan's Primary School (2:37pm) (L)Carters Rd (R)Pacific Hwy (R)Tail Timbers Rd (R)Scaysbrook Av (L)Ivy Av (2:46pm) (R)Lloyd Av (R)Elabana Av (R)Scaysbrook Av (R)Tail Timbers Rd (R)Lakesbre Av (R)Karoola Av to Tail Timbers Rd (2:55pm).
•	99	2:35 PM	Summerland Point	Departs School via (R)Carters Rd to St Brendan's Primary School (2:37pm) (L)Carters Rd (L)Pacific Hwy (L)Kanangra Dr (L)Summerland Rd (L)Yeramba Rd (2:52pm) (R)Illawong Rd (L)Warrina Av (L)Muraban Rd (R)Indra Av (R)Kullaroo Rd (L)Carns Bvd (L)Ginganup Rd (R)Government Rd, Summerland Rd to Kanangra Dr (3:06pm).
2797	*	2:36 PM	Blue Haven	FIRST SET DOWN ROPER RD Departs School via (R)Carters Rd to St Brendan's Primary School (2:40pm), then to Roper Rd (L)McKellar Bvd (2:47pm) (L)Kawana Av (R)Lady Laurel Dr (R)Colorado Dr (R)Bokhara Av to Pacific Hwy (2:57pm).
2798	2	2:37 PM	San Remo Buff Point	Departs School via (R)Carters Rd to St Brendan's Primary School (2:40pm) (L)Carters Rd (R)Pacific Hwy (L)Wentworth Av (R)Denham St (2:55pm) (R)Barton Rd (L)Wentworth Av (L)Pacific Hwy (L)Pacific Hwy (2:59pm) (L)Goorama Av (L)Richardson Rd (3:04pm) (R)Wills Rd (R)Central Coast Hwy (R)Girraween St (L)Butf Point Av (L)Narambi Rd to Nacooma Rd (3:12pm).
2800		2:39 PM	Chain Valley Bay North	Departs School via (R)Carters Rd to St Brendan's Primary School (2:43pm) (L)Carters Rd (L)Pacific Hwy (L)Chain Valley Bay Rd (L)Mulloway Rd (L)Trevally Av (2:52pm) (R)Teragalin Dr (R)Mulloway Rd (L)Chain Valley Bay Rd (L)Houston Av (R)Findlay Av (R)Kariola St to Houston Av (2:59pm).
2796		2:43 PM	Mannering Park Wyee Point Wyee	Departs School via (R)Carters Rd to St Brendan's Primary School (2:47pm)(L)Carters Rd (R)Pacific Hwy (2:54pm) (R)Ruttleys Rd (R)Vales Rd (R)Cartherine St (L)Griffith St (L)Spencer Rd (R)Vales Rd (L)Greenway Av (R)Macquarie Rd (R)Waverley Rd (R)Vales Rd (R)Ruttleys Rd (R)Government Rd (L)High St (R)Bath St (3:18pm) (R)Bay St (R)Government Rd (R)Ruttleys Rd (L)Wyee Rd to Wyee Station (3:28pm).
2795		2:43 PM	Gwandalan	Departs School via (R)Carters Rd to St Brendan's Primary School (2:46pm) (L)Carters Rd (L)Pacific Hwy (L)Kanangra Dr (R)Orana Rd (R)Winbin Cr (L)Gamban Rd (R)Parraweena Rd (R)Kanangra Dr to Gwandalan Public School (3:06pm).

Emergency services

Lake Munmorah is within the Tuggerah Lakes Police District. Head office is in Hely St, Wyong. There are also Police Stations in Main Road, Toukley and Dening St, The Entrance.

There are ambulance stations in Wyong and in Toukley and funding to upgrade these facilities with a second ambulance station in Wyong and a replacement station in Toukley was announced in 2017.

The site is within a bush fire prone area and there is a Lake Munmorah Rural Fire Brigade, located in Acacia Avenue.



Figure 45: Emergency services

Source: NSW Police, NSW Health Infrastructure, Facebook

7. Employment

Currently shortage of employment opportunities is a concern for the community of Lake Munmorah.

At the 2016 Census, the proportion of those in the workforce who were full time employed (54.8%) was lower than for NSW overall (59.2%) and the proportion unemployed (7.5%) was higher than for NSW (6.3%).

The proportion of families with both parents working full time was lower than average for NSW (14.2% compared with 22.6% for NSW) and the proportion with both parents not working was higher (36.5% compared with 21.0% for NSW).

Figure 46: Employment and unemployment

People who reported being in the labour force, aged 15 years and over	Lake Munmorah	%	New South Wales	%	Australia	%
Worked full-time	1,184	54.8	2,134,521	59.2	6,623,065	57.7
Worked part-time	728	33.7	1,071,151	29.7	3,491,503	30.4
Away from work	87	4.0	174,654	4.8	569,276	5.0
Unemployed	162	7.5	225,546	6.3	787,452	6.9
There were 2,161 people who reported being in the labour force in the time, 33.7% were employed part-time and 7.5% were unemployed.	week before Census night in	Lake Mun	morah (State Suburbs).	Of these 54.8	8% were employed fu	III
Employment - hours worked Employed people aged 15 years and over	Lake Munmorah	%	New South Wales	%	Australia	%
1-15 hours per week	240	12.0	364,637	10.8	1,218,823	11.4
16-24 hours per week	228	11.4	352,817	10.4	1,079,236	10.1
			050 700	10 5	4 400 445	44.0
25-34 hours per week	254	12.7	353,702	10.5	1,193,445	11.2
25-34 hours per week 35-39 hours per week	254 422	12.7 21.1	353,702 645,428	10.5 19.1	1,193,445 2,031,263	11.2
	422 763	21.1 38.2	645,428 1,489,099	19.1 44.1	2,031,263 4,591,801	
35-39 hours per week 40 hours or more per week	422 763	21.1 38.2	645,428 1,489,099	19.1 44.1	2,031,263 4,591,801	19.0
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employment status of parents in couple families	422 763 ad 1 to 15 hours, 11.4% worke	21.1 38.2 ed 16 to 24	645,428 1,489,099 hours and 38.2% work	19.1 44.1 ed 40 hours o	2,031,263 4,591,801 r more.	19.0 43.0
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employment status of parents in couple families abour force, parents or partners aged 15 years and over toth employed, worked full-time	422 763 ed 1 to 15 hours, 11.4% worke Lake Munmorah	21.1 38.2 ed 16 to 24	645,428 1,489,099 hours and 38.2% work New South Wales	19.1 44.1 ed 40 hours o %	2,031,263 4,591,801 r more. Australia	19.0 43.0 2
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employment status of parents in couple families abour force, parents or partners aged 15 years and over toth employed, worked full-time toth employed, worked part-time	422 763 ed 1 to 15 hours, 11.4% worke Lake Munmorah 173	21.1 38.2 ed 16 to 24 % 14.2	645,428 1,489,099 I hours and 38.2% work New South Wales 360,916	19.1 44.1 ed 40 hours o % 22.6	2,031,263 4,591,801 r more. Australia 1,084,006	19.0 43.0 2
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employment status of parents in couple families abour force, parents or partners aged 15 years and over toth employed, worked full-time toth employed, worked part-time One employed full-time, one part-time	422 763 ed 1 to 15 hours, 11.4% worke Lake Munmorah 173 38	21.1 38.2 ed 16 to 24 % 14.2 3.1	645,428 1,489,099 hours and 38.2% work New South Wales 360,916 63,106	19.1 44.1 ed 40 hours o % 22.6 4.0	2,031,263 4,591,801 r more. Australia 1,084,006 203,596	19.0 43.0 2 2
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employment status of parents in couple families abour force, parents or partners aged 15 years and over toth employed, worked full-time toth employed, worked part-time One employed full-time, one part-time One employed full-time, other not working	422 763 ad 1 to 15 hours, 11.4% worke Lake Munmorah 173 38 243	21.1 38.2 ed 16 to 24 % 14.2 3.1 19.9	645,428 1,489,099 hours and 38.2% work New South Wales 360,916 63,106 329,567	19.1 44.1 ed 40 hours o % 22.6 4.0 20.6	2,031,263 4,591,801 r more. Australia 1,084,006 203,596 1,086,460	19.0 43.0 2 2 1
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employement status of parents in couple families abour force, parents or partners aged 15 years and over toth employed, worked full-time toth employed, worked full-time One employed full-time, one part-time One employed full-time, other not working One employed part-time, other not working	422 763 ad 1 to 15 hours, 11.4% worke Lake Munmorah 173 38 243 143	21.1 38.2 ed 16 to 24 % 14.2 3.1 19.9 11.7	645,428 1,489,099 hours and 38.2% work New South Wales 360,916 63,106 329,567 240,084	19.1 44.1 ed 40 hours o % 22.6 4.0 20.6 15.0	2,031,263 4,591,801 r more. Australia 1,084,006 203,596 1,086,460 749,886	19.0 43.0 2 2 1
35-39 hours per week 40 hours or more per week Of employed people in Lake Munmorah (State Suburbs), 12.0% worke Employment status of parents in couple families abour force, parents or partners aged 15 years and over	422 763 ad 1 to 15 hours, 11.4% worke Lake Munmorah 173 38 243 143 68	21.1 38.2 % 4d 16 to 24 % 14.2 3.1 19.9 11.7 5.6	645,428 1,489,099 hours and 38.2% work New South Wales 360,916 63,106 329,567 240,084 96,933	19.1 44.1 ed 40 hours o % 22.6 4.0 20.6 15.0 6.1	2,031,263 4,591,801 r more. Australia 1,084,006 203,596 1,086,460 749,886 302,037	19.0

Currently Council's main strategy for encouraging employment in the area is to permit home-based businesses under State Environmental Planning Policy exempting these from compliant development codes.

Over the four proposed stages of development, this project will bring to the area substantial employment opportunities for a wide range of tradesmen and labourers working in:

- site preparation including, earth-moving, drainage and dam construction
- road building, installation of power lines and internet
- housing construction and landscaping, including walkways and recreational areas.

Future employment will presumably arise in the areas zoned B1, B2, B3, B4, B5, B6, B7 (commercial areas) and IN1, IN2 (industrial areas) and SP1, SP2, SP3 (Infrastructure and tourism).



Figure 47: Zoning of Wyong end of the Central Coast

Source: Central Coast Council website

8. On-site facilities to be provided for residents

Over the past 20 years, an extensive body of research and meta-analysis has emerged, concluding that social cohesion, measured by the levels of trust, reciprocity and formation of strong social bonds within communities, is an important factor in determining health, well-being and safety and there has been increasing interest in aspects of the built environment that may facilitate the development of social connectedness or "social capital", through pleasant every day encounters and shared activities (Coleman, 1988; Putnam, 2000; Lin, 2001; Lin, Cook and Burt, 2001; Halpern, 2005; Glover, Shinew and Perry, 2005; Wood, Giles-Corti and Bulsara, 2012; Eriksson and Emmelin, 2013; Cooper, Fone and Chiaradia, 2014; Strange, Bremner, Fisher, Howat and Wood, 2017).

The proposed development will include on-site community facilities that will help to build a strong and cohesive community, rich in social capital.

These facilities will include:

- a substantial green corridor along the natural overland flow path;
- a dam in the north-eastern corner, with a contemplation jetty;
- picnic tables and barbequeue facilities in open green space in the north-eastern corner, looking into the environmental area;
- a cycle path along the western side of the green corridor;
- stroller/wheelchair-friendly walkways;
- children's play equipment and a shelter suitable for a mothers and infants play group at the south western corner, adjacent to the shopping centre, which could also serve for children's birthday parties, a yoga class and other shared activities
- exercise stations to promote better health and friendly interactions through a shared activity.



Figure 48: Shelter for play groups and yoga

Figure 49: Exercise and play equipment







Figure 50: Proposed boardwalks and cycle paths







9. Impacts on near neighbours

Residents of houses in the closest streets (Kemira, Kookaburra, Wallaby and Possum and to a limited extent Kangaroo) were invited to comment on the prospect of having a large, new residential development close to their homes.



Figure 51: The site with surrounding streets

Some said the development would have no significant impact on them.

"It's going to happen. I don't know that it will affect me."

"It won't affect me at all. No problem."

"I don't think it's much to do with me at all."

"I've got nothing against it. You can't stop progress. It doesn't worry me in the slightest."

"Some will be happy about it; some not, but it's inevitable with so much land."

"Doesn't bother me as long as they get the infrastructure right, which they never do. I don't mind it being built up as long as the roads are not afterthoughts."

Some thought that increased population might bring positive changes including more Council and State Government expenditure in the area, an expanded shopping centre and more housing available for the next generation to buy or rent.

"It's not a bad thing. Lake Munmorah has grown. It could only benefit us. More would be provided up this end of the Central Coast. We're the forgotten part."

"There are eight residential parks within two kilometres of here, so some housing that is not for retirees would be good. It's impossible to get a rental around here. I think it would be a good support for Woolworths. We'd be keen to see that (shopping centre) expand. ...It's suitable. It's close to the ocean. Warnervale's too hot."

"Sounds good to me. More shops. More growth. That's good for us."

"It's good. I'd like my son to be able to buy a home here so he can stay in the area."

"Not a bad thing. It'd be busier at Woolies, but more shops would be a benefit. If it brings more facilities... There's been talk of a skateboard park. If it brings Council plans forward..."

"There's always impacts. Footpaths would be good. This is a good family environment. If it brings tennis courts or a park for family parties..."

"Maybe better infrastructure: gas, internet better. There's **nothing here for kids**. The skate park hasn't happened. It's positive. Things will get better."

"Property values will go up. We'll get kerbing and guttering, more reliable power."

"If it brings infrastructure forward, that would be something."

"If there's more people, they might fill in the gutters so I can get my caravan off my front garden. I've asked them to fill it in. My caravan will be on the road and registered if they fill in the gutters."

"Maybe some things will get done. They'll need to fix the power supply then. We have blackouts as it is. There's no playgrounds or park for older kids. There's been talk of a skate park. There's no public transport. It's the forgotten area."

Traffic flow was the main concern raised. Many said there were already traffic problems due to children being dropped off and picked up at roughly the same time from the four schools in Carters Road and that there was also congestion at the traffic lights at the Tall Timbers intersection with the Pacific Highway at peak times.

"Traffic at the Tall Timbers lights is already backed up after school."

"There's a traffic issue in the school area."

"My grandchildren go to school here, so the Link Road would be great for me."

"The down side is increased traffic."

"Will that make it impossible to park? I don't know."

"There'd be a lot more traffic to the area and traffic means pollution."

"All the traffic. There'll be no more kookaburras. We need a green area for the kids growing up in the area. Otherwise they'll run amok. A skateboard ramp near the shops would be good."

"Fixing up these feeder roads, not everyone going into it as it is. You need to bring people in and out from the back. Link Road. Every school kid's parents will want to come in that way."

"I always assumed Kemira Road would join the Link Road."

"In and out from the Pacific Highway would be safest."

"I hope it's not through to Kemira. I'd prefer they went out to the Link Road. I don't want a busy street. Yuck! We're so happy here. No-one behind us. Just the bush."

"There's no buses here and no jobs. The only thing it will do is add to the traffic. The bridges all lead to one lane. It's insane. There's no infrastructure in place for any of it. People don't know how to use buses. No education."

"I'd prefer they used the Link Road. Who wants a bus coming past? Too noisy. I'm a shift worker and I need my sleep."

There was some resistance to growth, particularly the idea of their own streets becoming thoroughfares to provide access to and from the new residential development.

"I don't want this road to be busy. I prefer to see it green."

"Kids. The children play a lot together. They cross the roads to visit each other and ride their bikes. There's freedom and security here. It would increase the dangers and reduce the freedom."

"I'd like to keep it as it is: a small community, a cul-de-sac. Quiet, private and safe."

"I'd like to keep our streets dead end. We like our kids to ride their bikes there where there's few cars and we can keep an eye out for them."

"They'll need slow down zones, chicanes, 50 kilometres."

"There'll be more traffic. The view is awesome now. Quiet. Too many houses."

"I'm not for development. I like it here small and quiet and sectioned off. I don't like too much growth. There's more potential risk."

A few suggested adequate attention to drainage would be important.

"Drainage is the first thing that has to happen."

"There's plenty of water. Drainage is very important. They'll need bloody **good** drainage."

Some were concerned that the local schools might not have the capacity to accept more students. .

"Aren't the schools full now?"

"The schools can't handle what's there at the moment."

"The primary school is at capacity now and there's no land to build on."

Stuart Durie, Secretary of the Lake Munmorah Progress Association advised that the development proposal had been discussed at a meeting. Most of the discussion concerned traffic solutions and the proposal received no adverse comments.

"The planning Proposal for the Pacific Highway was tabled at last Tuesday's meeting of the Lake Munmorah Progress Association. There was some discussion around traffic solutions and it was generally well received with no adverse comments."

The Lake Munmorah Bowling Club currently has about 6,000 members and would particularly welcome younger new members.

"We would support it, definitely. Great for us. Obviously very beneficial. We have about 6,000 members and it's growing all the time, but the average age is about 67, so it would be good to have younger members joining to keep it alive for the future. We hope to get a set of lights so people can turn in here safely from the Pacific Highway and turn right safely when leaving. It would make sense to have an entryexit point for the development at the same spot.

There was general enthusiasm for the development amongst business owners in the Lake Munmorah shopping centre.

"It'll be good for our business. I wonder if the car park's big enough."

"Businesswise, it would be good.""

"From a business point of view, it would be good."

"We'd get busier. It's great! An increase in population would be good."

"I think it's good." "I think it will be beneficial."

"Potentially we'll have more patients."

"It will be positive, you'd think."

"It might be good for us. More [people coming into the shop."

"Maybe better for shops."

"For me, happy. Shopping centre get bigger. More customers. No need to go to Swansea or Lake Haven or Tuggerah."

Please see page 59 for letters of support.

10. References

Coleman, James S. Social Capital in the Creation of Human Capital. *American Journal of Sociology* 94/Supplement (1988): S95-S120.

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Glover, TD, Shinew, KJ and Perry, D: Association, sociability, and civic culture: The democratic effect of community gardening *Leisure Sciences*, 2005, V27 (1): 75–92.

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Cooper, Crispin HV, Fone, David L and Chiaradia, Alain JF: Measuring the impact of spatial network layout on community social cohesion: a cross-sectional study *International Journal of Health Geographics,* London; 2014, V13, p 11.

Strange, Cecily; Bremner, Alexander; Fisher, Colleen; Howat, Peter; Wood, Lisa: Local community playgroup participation and associations with social capital *Health Promotion Journal of Australia*; Milton Vol. 28, Iss 2, Aug 2017, pp 110-117.

11. Dr Rigmor Berg

Dr Rigmor Berg, Principal of BB Professional Services, aims to provide research that is enlightening, constructive and strategically useful, with clear conclusions and actionable recommendations, well supported by evidence. Her qualifications include BSc(Hons) PhD in Research Psychology, as well as Associate Professional Certificate in Expert Evidence. She has provided social impacts expert evidence in the Land and Environment Court for government, community and private sector clients. She is experienced in pure social research, integrative and evaluative research, using both qualitative and quantitative methods, often in combination.

Rigmor was Senior Researcher at the Independent Commission Against Corruption (ICAC) for three years and has taught Psychology and Women's Studies at Melbourne University, Bio-ethics at University of NSW and Marketing Research at the University of Technology Sydney, each over several years. She has mainly worked as an independent research consultant to all levels of government, community-based organisations, international organisations and the private sector and has held period contracts with the Australian Federation of AIDS Organisations, the National Relay Service and Centrelink Social Marketing Research Panel.

Australian Federal Government clients have included Australia Council, Centrelink, the Department of Health & Family/Human Services/Aged Care, Department of Immigration & Indigenous Affairs, Department of Social Security, Health Insurance Commission, National Centre in HIV Epidemiology and Clinical Research, Department of Family and Community Services and the Department of Education, Employment, Training and Youth Affairs.

State Government clients have included the NSW Departments of Health, Corrective Services, Community Services, Juvenile Justice, Education and Training and Attorney General; North Sydney and Central Coast, South Eastern Sydney and Illawarra, Western Sydney and Central Sydney Area Health Services and Communicable Diseases Branch of Queensland Health. Local government clients have included Gosford City and Hornsby Shire Councils. Other clients include World Health Organisation and Wellcome Australia.

Non-government organisation clients have included Seniors Rights Service, NSW Tenants Union, Maternity Action UK, Cancer Council of NSW, Diabetes Australia, Family Planning Association, the Australian Federation of AIDS Organisations, ACON, Queensland AIDS Council, Queensland Association for Healthy Communities, NSW Users and AIDS Association, NSW Association for Mental Health, Australian Arabic Welfare Council, the Gender Centre and the Inspire Foundation.

She has worked with a range of populations with special needs including people with HIV, people from culturally and linguistically diverse backgrounds, First Nations people, lesbians, gay men and transgender people, people in custodial settings, people who use drugs, sex workers, people with disabilities, seniors, vulnerable youth, people experiencing homelessness, people experiencing unemployment and tenants.

While most of her work has been undertaken as the sole or principal consultant, she has also collaborated with or been sub-contracted by other social research, social marketing or strategic planning organisations, including T Issues, Quay Connection, Urbis Keys Young, University of New England, Australian Centre for Health Promotion at Sydney University, C,W,F,S, Cultural Partners Australia and WestWood Spice.

Please see website for more information: https://www.bbps.com.au/

Dr Rigmor Berg was the sole or principal consultant for all projects listed in the following pages, except those marked by *, for which she was a sub-contracted consultant.

Social impact research and expert evidence

- Gosford City Council/PJ Donnellan & Co:
 - Social Impact Assessment re redevelopment of Tingari Residential Park for Land & Environment Court (LEC GCC vs Baker)
 - Social Impact Assessment re Erina Gardens and Karalta Court Residential Parks
 - Social impact opinion regarding proposed redevelopment of land at Mt White
- Longhill Planning/ Cameron & Myers: Social impact survey and expert evidence for Land and Environment Court case 975/2004 - Tommy Doran's Irish Pub, Wallarah Rd, Kanwal
- Longhill Planning/Hawkins Consortium: Social impacts assessment of a proposed vertical village and seniors living complex at Umina Beach
- Longhill Planning/QCare Australia P/L: Social impacts assessment of a proposed integrated seniors housing and aged care facility at Empire Bay
- Cameron & Myers/Gwynne Thompson: Review of literature addressing potential social impacts of proposed Killarney Vale bottle shop on the Central Coast of NSW
- Cameron & Myers: Social Impact Assessment of Proposed *Corea Bay Village* Residential Park at South Woy Woy
- Gwynne Thompson: Community Impacts Assessment concerning proposed IGA bottle shop in Marulan
- Nexus Environmental Planning Pty Ltd / PRJM Pty Ltd: Social Impacts Assessment concerning proposed residential park development in Glossodia
- The Cellar Group/Gwynne Thompson: Community Impacts of proposed Dan Murphy's bottle shop in Byron Bay
- NSW Tenants Union: Social impacts evidence concerning eviction of elderly long-term tenants in relation to the proposed Badgerys creek airport
- Hornsby Council/Storey & Gough: Social impact expert evidence for Land and Environment Court Proceeding No 10030 of 2006 (proposed childcare centre)
- Phillip Brand/ Cameron & Myers: Social Impact study and expert evidence for Liquor Administration Board related to Union Hotel Gosford
- De Cue Pty Ltd /Comino Prassas: Social impact expert evidence for Land and Environment Court class 4 proceedings No 40301 of 2006
- The Stevens Group: Social Impact Statement concerning the redevelopment of Melaleuca Caravan park at Port Macquarie
- Entasil: Social Impacts Statement concerning proposed bottle shop in Rozelle
- SJH Planning/Glynatsis: Social impacts assessment re Bella Café and Small Bar in Terrigal (Central Coast Council DA: 52739/2017)
- Poonsup/Storey & Gough: Social impacts of a proposed brothel in Gordon

Needs assessment and strategic review of services and programs

- Sydney University College of Health Sciences: Strategic Review of All International Health Activities of Faculties and Institutes within the College
- NSW Health/Department of Health, Housing and Community Services: Evaluation of Innovative Health Services for Homeless Youth Program in NSW (10 youth services)

- NSW Drug and Alcohol Directorate: Strategic Assessment of all Alcohol and Other Drug Services for Young People throughout NSW
- WestWood Spice/National Relay Service Outreach:
 - National User Survey 2008, 2009, 2010, 2011, 2012, 2013
 - qualitative research concerning Indigenous Australians with hearing impairment
 - Needs assessment for promotion of the NRS to older men with hearing impairment
 - Needs Assessment for Indigenous Users
 - Research concerning awareness of NRS amongst professional intermediaries
 - Needs assessment for and testing of responsive website design for mobile devices
 - User Experience Consultation concerning NRS App
 - TTY Users Project, including survey of Speak & Read users and focus groups with Type & Read users
- UnitingChurch Burnside/Division of General Practice/NSW Department of Community Services (with T Issues Consultancy): Evaluation strategy for RAPT AOD Project (Reconnecting Adolescents and Parents Team) AOD Project; Year 1 Review of RAPT AOD Project; Final Evaluation of RAPT AOD Project
- Australian Federation of AIDS Organisations: Evaluation of Education Program 2012-2014, including intellectual leadership and capacity development components, plus
 - Ending HIV national campaign
 - The Drama Downunder national campaign
 - Time to Test national campaign
 - Your Body Blueprint website
 - Condoman website
 - Our Team booklet
 - Taking a Look booklet
 - Us Mob and HIV booklet
 - Our Destiny Haz Arrived print resources.
- AIDS Council of NSW / ACON:
 - Evaluation of Trashy Queens Tribes Project;
 - Evaluation of NSW Deaf Communities HIV Project;
 - Fun and Esteem Gay Youth HIV Project Evaluation data analysis;
 - HIV Education Needs Assessment data analysis;
 - Evaluation of The Luncheon Club (health promotion for HIV+ people)
- Department of Community Services/urbis keys young* Family Access to Prisoners
- Australian Federation of AIDS Organisations: Process and Outcome Evaluation of Gay Education Strategies Program, including:
 - Withdrawal campaign,
 - Relationships campaign,
 - Oral Sex campaign,
 - Negotiated Safety campaign,
 - One Community campaign,
 - Getting in Focus campaign,
 - Living in the Epidemic campaign,
 - Asian Gay Proud campaign,
 - Gay Youth campaign,
 - NTAC Mensline,
 - AACACT referral cards,
 - TasCARD Bass Strait is Not a Barrier campaign,
 - conferences, workshops, manuals and other resources
- Australian Federation of AIDS Organisations:
 - Assessment of Information Needs of People with HIV from Culturally and Linguistically Diverse Backgrounds;

- Evaluation of Reflexive Practice Workshop;
- Evaluation of Gay Educators' Conference;
- Review of AFAO/NAPWA Education Steering and Education Strategies Groups
- PLWHIV community consultation concerning health promotion needs in relation to a proposed website addressing preventable illness
- The Aged-care Rights Service (TARS):
 - Review of Client Intake, Flow and Support Processes
 - Quality Assurance Study for Retirement Villages Legal Service
 - Rebranding consultations with staff and potential clients
- NSW Users and AIDS Association:
 - Review of User's News (with Julie Bates)
 - Evaluation of Goulburn Koories Tribes Project
- Queensland Health Communicable Diseases Branch HIV/AIDS, Hepatitis C and Sexual Health Program: Sex Workers Assessment of Needs 2008 (with Julie Bates), followed by establishment support for a community-based organisation to deliver a health promotion program for sex workers, including community workshops, development of policies and procedures, strategic, operational and implementation plans and evaluation strategy using a Hierarchy of Outcomes framework
- NSW Department of Corrective Services Prison AIDS Project/Commonwealth Department of Health, Housing and Community Services: Evaluation of National AIDS in Prisons Information Clearing House (NAIPIC)
- Queensland Association for Healthy Communities:
 - Evaluation of HIV, HCV and STIs Program for Gay and other Men who have Sex with Men (including Two Spirits Indigenous Program), including development of conceptual diagram, stakeholder consultations, community focus groups and audit against national benchmarks
 - Review of Best Practice in Group Work with Gay Men
- HIV and Related Programs (HARP) Unit of South Eastern Sydney and Illawarra Health Region: Gap Analysis of Services for Sex Workers At Risk (with Julie Bates and Christine Harcourt)
- AIDS and Infectious Diseases Branch, NSW Dept Health:
 - Impact evaluation of CEIDA HIV/AIDS Training Program for drug treatment and needle exchange workers;
 - Evaluation of Needle and Syringe Vending Machine Strategy;
 - Evaluation of HIV/AIDS Education Arabic Speaking Community Project
- Health Insurance Commission/ Keys Young*: Strategies for Improved Aboriginal Access to Medicare and Pharmaceutical Benefits telephone survey of Aboriginal Health Services
- Office of Aboriginal and Torres Strait Islander Health Services/ Keys Young*: Mid-term Review of National Indigenous Australians Sexual Health Strategy
- Department of Health and Family Services/Keys Young*: Evaluation Strategy for Aboriginal and Torres Strait Islander Mental Health Action Plan
- ATSIC/Keys Young*: Evaluation of ATSIC Service Charter and Complaints Management
- ACON Sex Workers Outreach Project (SWOP): Review of All Information Resources (with Julie Bates)
- Family Planning Association/Juvenile Justice Department: Evaluation instruments for *Thinking Through Adolescent Sexuality* workshop

- Inspire Foundation/Mental Health Branch, Department of Human Services and Health: Evaluation of *Reach Out!* national youth suicide prevention project
- Western Sydney Area Health Service: Assessment of HIV/STD education needs of young people in Western Sydney
- Qld EPA /*T Issues: evaluation tool design and data analysis for Waste Education Strategic Review
- Department of Community Services: Review of Services for Vulnerable Youth throughout NSW in relation to Youth Services Database Pilot Project
- Commonwealth Department of Health, Housing and Human Services/ Sydney Sexual Health Centre: Process and Impact Evaluation of National HIV Contact Tracing Seminar
- Gender Centre/NSW Health: Evaluation of Health Service Providers Training
- NSW Department of Health/Cultural Partners: Evaluation of Play Now Act Now Youth Alcohol Film Project
- Department of Education, Employment, Training and Youth Affairs/ Keys Young*: Strategies for Disadvantaged Job Seekers telephone survey of key informants
- Department of Education, Employment, Training and Youth Affairs/ Centrelink/Keys Young*: Post Implementation Review of Jobs Network Access
- Australia Council/Quay Connection*: Community Cultural Development Fund National Models Project Evaluation

Concept testing and evaluation of campaigns and information resources

- Cellblock Youth Health Centre/NSW Department of Health: Concept testing and evaluation of *Health Information Project for Homeless Youth (HIP* comics); Concept testing and evaluation of *Youth Alcohol Project* (YAP comics)
- Drug and Alcohol Directorate/Centre for Education and Information on Drugs and Alcohol:
 - Concept testing, evaluation of Amphetamines Campaign (Speed Wise Speed Safe)
 - Concept testing of minor tranquillisers information brochure for women
 - Drink Drunk Campaign: Concept testing of alcohol and violence comic
- Social Change Media/Mental Health Branch, Department of Human Services and Health: concept testing and evaluation of *Parenting* booklets and materials for radio
- National Relay Service Outreach/ WestWood Spice:
 - Concept testing of information resources and advertisements targeting older men and their families
 - concept testing of general promotional brochure
 - testing of new website design
 - testing of viral promotional video
 - testing of responsive version of website for small screen mobile devices.
- NSW Association for Mental Health: Evaluation of the Mental Health Information for Regional and Remote Australia (MHIRRA) service
- MedAct /Maternity Action (UK):
 - Concept testing of Reaching Out Project: Maternity Access and Advocacy Pack
 - Evaluation strategy and instruments for Maternity Rights at Work Project
 - Evaluation strategy for *Maternity Rights* website for service providers.
- Centrelink/FaCS:
 - Customer consultation concerning sole parent review process;

- Evaluation of new format Age Pension News;
- Focus testing of You and Your Family December, 1997 and March, 1998;
- Market testing of SA316 (residential aged care fee subsidy form and booklet)
- Focus testing of Commonwealth Seniors Health card claim form and brochure
- Department of Social Security (with Juliet London):
 - Concept testing of *TeleService* promotional materials
 - Concept testing of information resources concerning changes to Age Pension eligibility age
 - Concept testing of change of Age Pension eligibility (extended deeming) information resources
 - Concept testing of Age Pension All you need to know booklet
 - Concept testing of Age Pension Investing money: Your choices booklet
 - Concept testing of Moving House: Your choices booklet
- AIDS Council of NSW: Evaluation of Social Marketing Program 2001-2002, including
 - Safe Summer campaigns;
 - Consider This;
 - When You're Hot, You're Hot (SOPV booklets);
 - On Any Street (Anti-Violence Project),
 - Relationships magazine;
 - 15% campaign
- Australian Federation of AIDS Organisations/National Association of People With HIV/AIDS: Concept testing / impact evaluation of:
 - Indigenous Sistergirl posters
 - Indigenous gay men and sistergirl life stories project for radio
 - Everyday Pleasures campaign
 - Parties campaign
 - Overseas Travel campaign
 - Regional Travel campaign
 - Young Gay Men campaign
 - Standards of Care booklet for people with HIV
 - *HIV*+ *Gay Sex* booklet
 - Unprotected Anal Intercourse/ Clinical Markers campaign
 - HIV Survival Guide; HIV Treatments Breaks Campaign
 - Sexually Transmissible Infections poster
 - Sex In Queer Places interactive website
 - booklet for people newly diagnosed with HIV
 - Having a Life resource for HIV positive people
 - Side Effects resource for positive people
- · AIDS Council of NSW: Concept testing of
 - Summer 2002 materials
 - Relationships magazine
 - Post-Exposure Prophylaxis posters
- Central Sydney Area Health Service: STIGMA HIV/STI testing interactive website and campaign print materials
- Wellcome Australia/C,W,F,S: HIV Early Treatments Information Campaign: concept testing and benchmark research

Other research services

- World Health Organisation Global Program on AIDS: Multi-centred Sex Industry Research Project research guidelines and Australian component of field work (with Julie Bates)
- National Centre in HIV Epidemiology and Clinical Research: HIV Related Malignancy Study questionnaire design
- UTS School of Marketing*/ Goodman Fielder: Attitudes to Gelatine in the Asia Pacific
- Department of Ageing, Disability and Home Care/Sydney University: Facilitation of action research to define best practice in systemic conferencing with clinicians
- Queensland Health/University of Queensland: Data collection from Torres Strait Islander gay men/sistergirls to inform health promotion programs
- World Health Organisation/*Australian Centre for Health Promotion: Tobacco Control Workshop for the Asia Pacific Region Needs Assessment (consultation Senior Health Executives in China, India, Indonesia, Korea, Japan, Malaysia, Papua New Guinea, Tuvalu, Solomon Islands, Tonga, Samoa, Thailand, Vietnam, Micronesia, Taiwan, Fiji, Vanuatu
- Health Insurance Commission/Cultural Partners: project management, questionnaire design and data analysis for Overseas Drug Diversion Program Second Evaluation
- Diabetes Australia/Quay Connection*: Facilitated round table discussions to identify priorities for a Diabetes Public Awareness Strategy
- Cancer Council NSW: Preparation of scientific paper for submission to Standards Australia, *Measurement and Reporting of Broad Spectrum Capability in Sunscreens*
- School of Public Health, Sydney University: Preparation of research brief for independent marketing research tender
- Matthew Myers:
 - research towards paper addressing ways to improve access to Family Dispute Resolution Services for Aboriginal people
 - preparation of paper addressing the evidence of children and of expert witnesses in cases before the Family and Federal Magistrates Courts involving allegations of child sexual abuse.

Training/Manuals/Workshops

- NSW Department of Corrective Services: Drug and Alcohol Harm Reduction Education Manual (and later adaptation for Indigenous Inmates)
- NSW Department of Corrective Services/ University of New England, Northern Rivers*: Prison Officer HIV Training Program design
- Central Coast Area Health Service: Consultant trainer in HIV prevention, HIV support, HIV legal and ethical issues over three years for diverse human services professionals
- ASP Plastics *Fitpack Disposa-Safe*: Consumer Stakeholders facilitated workshop addressing safe disposal of injecting equipment
- NSW Association for Adolescent Health: Best Practice in Youth Health Services (facilitated two day workshop, followed by production of best practice manual)
- NSW Attorney General's Department: Manual of Policies and Procedures for Youth Drug Court Pilot Program
- NACAIDS: HIV Counselling Manual for Telephone Counsellors; HIV Counselling Manual for Campus Counsellors

- Network of Alcohol and Drug Agencies: HIV Education, Counselling and Support Manual
- 5th National AIDS Conference: HIV training of venue staff and community liaison
- University of Technology Sydney: Lecturer in Marketing Research, School of Marketing for 3 years
- University of NSW: Lecturer in Bioethics, School of Medical Education; Lecturer in Medical Ethics and Health Law, School of Community Medicine for 4 years.

Strategic Planning

- Seniors' Rights Service: development of 2015-2020 Strategic Plan
- ANET (Australian Federation of AIDS Organisations National Association of People with AIDS Education Team): Membership consultation and development of 2011-2015 Five Year Strategic Plan (with Ross Duffin)
- Communicable Diseases Branch, Queensland Health / Respect Inc: Mentoring assistance with development of first 3 year strategic plan, operational plan and agency implementation plans for Year 1; Design of program logic conceptual diagram, evaluation strategies and tools
- NTARF (Northern Territory Aboriginal Health Forum): facilitation of strategic planning day
- Araluen Cultural Precinct, Alice Springs: Facilitation of strategic planning day.

12. Letters of support



LAKE MUNMORAH PROGRESS ASSOCIATION Dr Rigmor Berg Principal **BB** Professional Services 928 Bourke St ZETLAND NSW 2017 Dear Dr Berg RE: Planning Proposal 285, 295 + 305 Pacific Highway Lake Munmorah Thank you for providing the concept precinct layout of the above mentioned planning proposal. The layout and supporting plans were tabled at a meeting of the Association on 11th December 2018 and the latest version was tabled on 12th February 2019. The plan was well received and there have been no adverse comments. In support of the proposal, it was noted that the planned subdivision will be in close proximity to the proposed Regional Skate Park and Recreation facility to be constructed by Central Coast Council on the corner of Tall Timbers Road and the Pacific Highway. The community is generally supportive of the expansion of the nearby Woolworths Shopping Complex and it is hoped that proposals of this nature will help sustain the second Stage. Yours sincerely ie J.P. Stuart Durie JP Secretary & Publicity Officer Lake Munmorah Progress Association PO Box 6009 Lake Munmorah 2259 02 43581052 - 0411257721 20th February 2019