# FISHERMANS BEND PLANNING REVIEW PANEL: DRAFT AMENDMENT GC81

## SUPPLEMENTARY INFORMATION NOTE

SIN NUMBER:	3
DATE:	28 March 2018
PRECINCT:	All
DRAFT FRAMEWORK REFERENCE:	
SUBJECT:	Response to request for supplementary and supporting data from DELWP Demographic Research Team, prepared by David Sykes (Principal Demographer)
NOTE:	
REQUEST:	Supplementary and supporting demographic and related data in the following areas:
	<ol> <li>Comparisons of residential and employment density between precincts and other inner city areas;</li> <li>Source and comparting data</li> </ol>
	2. Source and supporting data for recent household additions totals quoted on p5 of the Population and Demographic Report:
	<ol> <li>Further information on car ownership rates for families in the inner city:</li> </ol>
	<ul> <li>Further information on household types in three- bedroom apartments:</li> </ul>
	5. Background to, and explanation of "Scenario 2" tables quoted in Urban

Design Report, provision of Scenario 1.

6. Further information on annual average household and dwelling additions across the Inner Metro Region in the past five years

Detailed data and advice has been provided by the DELWP Demographic Research Team in response to the numbered points above. See attachments with corresponding numbers listed below.

### **RESPONSE:**

### **ATTACHMENTS:**

Attachment 1 –	Comparisons of residential and employment density between precincts and other inner city areas
Attachment 2 -	Source and supporting data for recent household additions totals quoted on p5 of the Population and Demographic Report
Attachment 3 –	Further information on car ownership rates for families in the inner city
Attachment 4 – 1	Further information on household types in three-bedroom apartments
Attachment 5 – 1	Background to, and explanation of "Scenario 2" tables quoted in Urban Design Report, provision of Scenario 1
Attachment 6 – 1	Further information on annual average household and dwelling additions in the Inner Metro Region in the past five years

## Attachment 1 – Comparisons of residential and employment densities between precincts and other inner city areas

### Prepared by David Sykes, Principal Demographer, DELWP, 22 March 2018

1. The table below compares projected population densities in the four mixeduse precincts, and Fishermans Bend as a whole, with current densities for inner city areas in Melbourne and Sydney.

			PERSONS PE	RHECTARE	
Precinct / SA2	Area (ha)	2006	2016	2031	2051
Montague	45			224	426
Lorimer	27			332	439
Sandridge	86			35	400
Wirraway	94			25	153
Fishermans Bend (Mixed Use)	252			97	317
Melbourne (CBD)	244	62	170		
Southbank	237	42	86		
Docklands	307	14	39		
Darlinghurst	90	112	136		
Potts Point - Woolloomooloo	150	125	153		
Pyrmont - Ultimo	150	117	156		
Redfern - Chippendale	220	75	110		
Surry Hills	130	123	137		
Sydney - Haymarket - The Rocks	430	52	70		

#### Population Density - Persons per Hectare

#### Sources:

2006 & 2016 populations - Regional Population Growth, Australia (ABS 3218.0)

2031 & 2051 populations - DELWP Fishermans Bend Population & Demographics Report

2. The table below compares projected employment densities in the five precincts, and Fishermans Bend as a whole, with current densities for inner city areas in Melbourne.

#### **Employment Density - Jobs per Hectare**

		JOB	S PER HECTAR	E
Precinct / SA2	Area (ha)	2016	2031	2051
Montague	45		45	89
Lorimer	27		59	146
Sandridge	86		48	326
Wirraway	94		6	43
Employment Precinct	215		79	186
Fishermans Bend (Total)	467		54	171
Melbourne (CBD)	237	1,079		
Docklands	244	273		
Southbank	307	146		
South Yarra - West	150	124		
South Melbourne	249	118		
Fitzroy	138	118		
Collingwood	127	103		
Carlton	182	99		

#### Sources:

2016 employment - ABS Census 2016 (adjusted with Labour Force Survey)

2031 & 2051 employment - DELWP Fishermans Bend Population & Demographics Report

## Attachment 2 - Source and supporting data for recent household additions totals quoted on p5 of the Population and Demographic Report

## Prepared by David Sykes, Principal Demographer, DELWP, 22 March 2018

1. The first paragraph on page 5 of the Population and Demographic Report reads:

The overall development rates shown in **Table 2** are strong but not unreasonable assumptions for a future inner city precinct. Once major projects are underway in Montague and Lorimer, it is expected that at least 1,000 additional households per year can be accommodated across Fishermans Bend. The peak overall rate is 1,400 extra households per annum in 2029 and 2030, when all precincts are under way. In comparison, over the last five years Melbourne CBD has averaged an estimated 1,350 additional households per annum while Southbank and Docklands have averaged over 700 each.

- 2. Average annual household additions were calculated based on 90% of dwellings approved and expected to be constructed from the September quarter of 2012 to the June quarter of 2017. Allowing a 24-month lag for construction and occupancy, this is represented by dwellings approved from the September quarter of 2010 to the June quarter of 2015 (as per Building Approvals Australia, ABS 8731.0).
- 3. Due to a typographic error in the production of the Population and Demographic Report, the rounded dwelling figure for Melbourne SA2 (an area covering the Hoddle Grid plus the extension to Victoria/Peel/William Streets) was entered as 1,500 instead of 2,500 – leading to an erroneous calculation of 1,350 additional households (i.e. 90% of 1,500 dwellings).
- 4. The correct figures for Melbourne are provided in the tables below. Quoted figures for Southbank and Docklands remain valid. Further comment on the DELWP methodology follows overleaf.

Cor	rected data -	
dwel	ling approvals	
Total 20 Qtrs to	Annual	Rounded
Jun-2015	Average	figure
12,381	2,476	2,500
4,765	953	950
4 307	861	860
4,507	001	
Adjusted to	household addit	ions
Adjusted to (90% of d	household addit	ions s)
Adjusted to (90% of d Total 20 Qtrs	household additi welling approvals Annual	ions s) Rounded
Adjusted to (90% of d Total 20 Qtrs to Jun-2015	household addit welling approvals Annual Average	ions s) Rounded figure
Adjusted to (90% of d Total 20 Qtrs to Jun-2015 11,143	household addit welling approvals Annual Average 2,229	ions s) Rounded figure 2,230
Adjusted to (90% of d Total 20 Qtrs to Jun-2015 11,143 4,289	household addit welling approvals Annual Average 2,229 858	ions s) Rounded figure 2,230 860
	Con dwel Total 20 Qtrs to Jun-2015 12,381 4,765	Corrected data - dwelling approvals Total 20 Qtrs to Annual Jun-2015 Average 12,381 2,476 4,765 953

### CORRECTION OF HOUSEHOLD ADDITIONS TOTAL FOR MELBOURNE SA2: FISHERMANS BEND POPULATION AND DEMOGRAPHICS REPORT

Source: Building Approvals, Australia (ABS 8731.0)

- 5. There are a number of sources of dwelling data. It is, however, difficult to reconcile the different numbers on sales, construction, occupancy etc to build a coherent picture, or a match between sources, for places such as the CBD, Southbank and Docklands in particular. They are dynamic, and they are creating new challenges for estimation and enumeration, such as:
  - adjustable floorplates within buildings, such that the original stated number of dwellings may be very different from the result;
  - secure and inaccessible buildings have made it increasingly difficult for Census collectors to count numbers of dwellings, and to know how many are actually private dwellings vs serviced apartments, whether short-term airBNB should treated as hotels etc;
  - gauging the actual occupancy and use how many are vacant due to overseas investors, how many are short term rentals, how many are vacant due to normal market friction?
- 6. When numbers from complementary sources align, however, it lends strength to the chosen methodology (it is validated). DELWP's Housing Development Data (HDD) tracks dwelling change on the ground year-on-year. This data is now available up to the end of 2016 but was only available up to end 2014 when the demographic report was compiled. When comparing the change in dwelling stock across the three SA2s of interest from 2011 to 2016 in HDD, results are similar to the assumption based on the construction timing after dwelling approvals (in this case for the five years up to end 2014, allowing for a 24-month lag for construction). See table below.

## Annual average dwelling additions 2011-16

Source: Housing Development Data (DELWP)

	Tracked via Housing	
	Development Data	Estimated via
SA2 (Statistical Area Level 2)	(HDD)	Dwelling Approvals
Docklands	920	707
Melbourne	2192	2163
Southbank	983	953

Attachment 3 – Further information on car ownership rates for families in the inner city

## Prepared by David Sykes, Principal Demographer, DELWP, 22 March 2018

- 1. Car ownership tables from the 2016 Census show a close relationship between current conditions and the aspirations in the demographic report. The three tables below show the increasing likelihood of households of all types to do without a car as focus narrows from all dwellings across Greater Melbourne, to high-rise apartments in inner Melbourne in general, and then specifically to the CBD. (Melbourne Inner SA4 covers an area roughly bounded by Essendon, Port Melbourne, St Kilda and Thornbury.)
- 2. Within the core of the city, even families with children do not have a car in over 60 per cent of cases. In the wider inner city area, this is still over 30 per cent. Given the proximity to the city, and the expected public and active transport links in Fishermans Bend, it is not unreasonable to assume the targets in the demographic report.

#### Car ownership by household type, all dwellings in Greater Melbourne

Source: ABS Census 2016

	Couple without children	All other families	Group household	Lone person household	Other household
No car	5%	3%	23%	23%	33%
One car	34%	23%	31%	66%	41%
Two cars	49%	47%	32%	8%	19%
Three or more cars	12%	28%	14%	3%	7%
Total	100%	100%	100%	100%	100%
Total Households (n)	371,212	730,629	74,293	341,855	12,141

## Car ownership by household type, apartments in blocks of four storeys or more in Melbourne Inner SA4

Source: ABS Census 2016

	Couple without children	All other families	Group household	Lone person household	Other household
No car	28%	31%	62%	51%	66%
One car	51%	49%	27%	46%	28%
Two cars	19%	16%	10%	3%	5%
Three or more cars	2%	3%	1%	1%	1%
Total	100%	100%	100%	100%	100%
Total Households (n)	20,478	11,376	12,373	30,061	2,660

## Car ownership by household type, apartments in blocks of four storeys or more in Melbourne SA2

Source: ABS Census 2016

	Couple without children	All other families	Group household	Lone person household	Other household
No car	62%	62%	87%	81%	83%
One car	33%	32%	11%	18%	15%
Two cars	5%	5%	1%	1%	2%
Three or more cars	0%	1%	1%	0%	0%
Total	100%	100%	100%	100%	100%
Total Households (n)	3,345	1,983	4,237	5,412	950

#### Attachment

### 4 – Further information on household types in three-bedroom apartments

### Prepared by David Sykes, Principal Demographer, DELWP, 22 March 2018

1. The Census tables below show that the uptake of three-bedroom, high-rise dwellings varies by place. Across the whole of Greater Melbourne, the most common household type in these apartments is "All other families" (including couples with children and one-parent families). However, in Docklands the most common household type is the couple without children (potentially downsizers and/or young professionals), while in the Melbourne CBD it is the group household (potentially students). Southbank has a more even distribution, reflecting a mix of roles for the dwellings in the area.

	Greater	Docklands	Melbourne	Southbank
	Melbourne	SA2	SA2	SA2
Couple without children	24%	38%	18%	28%
All other families	37%	30%	22%	28%
Group household	18%	13%	39%	25%
Lone person household	18%	16%	16%	16%
Other household	3%	5%	5%	3%
Total	100%	100%	100%	100%
Total Households (n)	9036	572	1181	1097

#### Households by type in three bedroom apartments in blocks of four storeys or more Source: ABS Census 2016

- 2. To further support the future assumptions for household/family mix in the Population and Demographic Report it bears re-stating that the aim of the demographic work was to realise the vision of the Taskforce. The vision necessarily encompasses both the specific aims for the precincts and an understanding of how general trends in dwelling use and occupancy are likely to change over time.
- 3. At present, three-bedroom apartments are not a very common dwelling type across Melbourne, and there is a split in the market between those which are "family-friendly/affordable" and those which are a premium/penthouse product aimed at downsizers and the like. Over time, three-bedroom house/townhouse dwellings in inner Melbourne will most likely become relatively scarcer and much more expensive as the population grows and many opportunities remain concentrated in the inner region. This should see the creation of more three-bedroom apartments as typical housing for families, whose trade-off will be place-over-space, choosing a smaller dwelling in the well-connected inner city over a larger dwelling with private land in the middle or outer suburbs. Thus, while the aspirational share of families in three-bedroom dwellings is above that currently achieved across all of Melbourne, it is considered very likely the evolution of Melbourne's apartment market will make this achievable in places such as Fishermans Bend.

## Attachment 5 – background to, and explanation of "Scenario 2" tables quoted in Urban Design Report, provision of Scenario 1

## Prepared by David Sykes, Principal Demographer, DELWP, 22 March 2018

- 5. "Scenario 2" as quoted in the Urban Design Report is the result of an interim stage in the DELWP demographic modelling process: The Fishermans Bend Precinct Calculator Household and Dwelling Scenarios. The purpose of the calculator is to generate a population total, average household size and average dwelling size for each precinct at 2051.
- 6. The starting point is the final (2051) total household number, the key user inputs used across the calculator's four steps are:
  - share of total households allocated to each household type (different distributions reflect the character of each precinct);
  - average number of persons in each household of each type;
  - proportion of the households of each type likely to occupy dwellings of each nominal capacity (dwelling size/bedroom number);
  - average size of each dwelling by nominal capacity.
- 7. Step one generates a number of households of each household type (proportion of total households in each type – couple, family with children, lone person, group) by multiplying the household total by the assumed proportion.
- 8. Step two generates the total population number by multiplying the number of each household type by its average persons per household (sum all four types for total population).
- 9. Step three generates a number of households in each nominal dwelling capacity by multiplying the total household number for each type by the assumed shares for each nominal dwelling capacity (results in bottom right table).
- 10. Step four (final) generates and sums the total floorspace in dwellings of each nominal capacity, dividing this by the total number of households to calculate the average dwelling size in square metres.
- 11. Scenario 1 is the initial scenario input by DELWP to demonstrate the working of the calculator. This scenario was for illustrative purposes only no further modelling was based on its results. Note in particular the simplistic and unusable assumptions for allocation of household types to nominal dwelling capacities.
- 12. Scenario 2 is the space created for generation of inputs to further demographic models. Assumptions for allocation of household types to nominal dwelling capacities were input by DELWP based on Census analysis of apartment precincts in Melbourne and Sydney, plus aspirational assumptions for families with children. Persons per household in each household type and average dwelling size by nominal capacity were also used as input by DELWP. Household totals and shares by household type were refined by Leanne Hodyll

to create Scenario 2 results, which were used in further demographic modelling.

13. Outputs from Scenario 1 and 2 for each precinct follow.

	Group Household	Lone Household	Families	Couple Household		Total	Group Household	Lone Household	Families	Couple Household	Households type		Scenario 2	Montague			<b>Group Household</b>	Lone Household	Families	Couple Household			Total	Group Household	Lone Household	Families	Couple Household	Households type		Montague Scenario 1	Orange Cells = Cal	Instructions
	5%	50%	5%	20%	1 bedroom	100%	10%	30%	35%	25%	Household %						%0	100%	%0	100%	1 bedroom		100%	10%	30%	20%	40%	Household %			cs/Outputs	
	74%	45%	40%	60%	bedroom 3 t	8,532	853	2,560	2,986	2,133	Vo of HHs Pe		Po				100%	0%	%0	%0	bedroom 3 t		9,675	896	2,903	1,935	3,870	No of HHs Pe		Po		Pr
	20%	5%	54%	19%	bedroom 4+ b	2.25	2.25	1.00	3.50	2.00	rsons/hh Pop	19,197	pulation Pers				0%	0%	100%	0%	bedroom 4+ b		2.03	2.25	1.00	3.50	2.00	rsons/hh Pop	19,592	pulation Pers		epared by DELW
	1%	0%	1%	1%	edroom Tota	19,197	1,920	2,560	10,452	4,266	ulation	2.25	ons / HH No. H				0%	%0	%0	%0	edroom Tota		19,592	2,177	2,903	6,773	7,740	ulation	2.03	ons / HH No. H		P 28-F
	100%	100%	100%	100%								8,532	louseholds				100%	100%	100%	100%									9,675	louseholds		eb-17
Total Share of total	Group Household	Lone Household	Families	Couple Household			4+ bedroom	3 bedroom	2 bedroom	1 bedroom					Share of total	Total	Group Household	Lone Household	Families	Couple Household				4+ bedroom	3 bedroom	2 bedroom	1 bedroom				david sykes@delwp	Contact:
1,898 22%	43	1,280	149	427	1 bedroom		130	110	70	50	Square meters	77	Average dwelli		70%	6,773	0	2,903	0	3,870	1 bedroom	Households by		130	110	70	50	Square meters	64	Average dwelli	).vic.gov.au	
4,257 50%	631	1,152	1,194	1,280	2 bedroom 3								ng size		10%	896	896	0	0	0	2 bedroom 3	Dwelling Type (b								ng size	8683 0936	
2,316 27%	171	128	1,613	405	bedroom number										20%	1,935	0	0	1,935	0	bedroom 4+	edroom numbe										
60 1%	9	0	30	21	r) bedroom Tot	•									0%	0	0	0	0	0	bedroom Tot	2										
8,532 100%	853	2,560	2,986	2,133											100%	9,675	968	2,903	1,935	3,870	<u>a</u>											

	Group Household	one Household 5	amilies	Couple Household 2	1 bedroom		Total 10	Group Household	one Household 3	<sup>r</sup> amilies 2	Couple Household 3	Youseholds type Household		Scenario 2	Lorimer			Sroup Household	one Household 10	amilies	Couple Household 10	1 bedroom		Total 10	Group Household	one Household 4	amilies 1	Couple Household 3	Households type Household		Scenario 1	Lorimer	Orange Cells = Calcs/Outputs
	5% 74%	i0% 45%	5% 40%	0% 60%	2 bedroom 3		0% 5,891	5% 295	35% 2,062	1,473	35% 2,062	1% No of HHs F		1-0				0% 100%	%0	%0 %0	%0	1 2 bedroom 3		0% 6,660	5% 333	15% 2,997	999	35% 2,331	No of HHs F		1-10		
	20%	5%	54%	19%	bedroom 4+ bec	-	2.04	2.25	1.00	3.50	2.00	<sup>9</sup> ersons/hh Popul	12,002	opulation Person				0%	0%	100%	0%	bedroom 4+ bec		1.79	2.25	1.00	3.50	2.00	<sup>9</sup> ersons/hh Popul	11,905	opulation Person		
	1%	%0	1%	1%	droom Total		12,002	663	2,062	5,154	4,123	ation	2.04	IS / HH No. Ho				%0	%0	%0	0%	droom Total		11,905	749	2,997	3,497	4,662	ation	1.79	IS / HH No. Ho		
	100%	100%	100%	100%									5,891	Iseholds				100%	100%	100%	100%									6,660	iseholds		
lotal Share of total	Group Household	Lone Household	Families	Couple Household				4+ bedroom	3 bedroom	2 bedroom	1 bedroom					Share of total	Total	Group Household	Lone Household	Families	Couple Household				4+ bedroom	3 bedroom	2 bedroom	1 bedroom					david.sykes@delwp
1,532 26%	15	1,031	74	412	1 bedroom	Households by		130	110	70	50	Square meters	74	Average dwellin		80%	5,328	0	2,997	0	2,331	1 bedroom	Households by		130	110	70	50	Square meters	60	Average dwelli		o.vic.gov.au 8
2,972 50%	218	928	589	1,237	bedroom 3	Dwelling Type (b								ıg size		5%	333	333	0	0	0	bedroom 3	Dwelling Type (b								ıg size		3683 0936
1,349 23%	59	103	795	392	bedroom 4+	edroom numbe										15%	666	0	0	666	0	bedroom 4+	edroom numbe										
38 1%	3	0	15	21	bedroom To	2										80	0	0	0	0	0	bedroom To	-										
5,891	295	2,062	1,473	2,062												100%	6,660	333	2,997	666	2,331												

Fishermans Bend Precinct Calculator - Household and Dwelling Scenarios

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Instructions			Prepared by DE	LWP	28-Feb-17	Contact:				
Grey Cells = User In	puts					David Sykes				
Orange Cells = Calc	s/Outputs					david.sykes@delwp.vic.gov.au 8683 0	936			
Sandridge										
Scenario 1		1_	Population	Persons / HH	No. Households	Average dwelling size				
		_	32,775	1.90	17,250	61				
Households type	Household % N	lo of HHs	Persons/hh	Population		Square meters				
<b>Couple Household</b>	40%	6,900	2.00	13,800		1 bedroom 50				
Families	15%	2,588	3.50	9,056		2 bedroom 70				
Lone Household	35%	6,038	1.00	6,038		3 bedroom 110				
Group Household	10%	1,725	2.25	3,881		4+ bedroom 130				
Total	100%	17,250	1.90	32,775						
						Households by Dwelli	ng Type (bed	room numb	er)	
	1 bedroom 2	bedroom	3 bedroom	4+ bedroom	Total	1 bedroom 2 bedr	bom 3 bec	droom 4	+ bedroom Tot	
Couple Household	100%	0%	%0	0%	100%	Couple Household 6,900	0	0	0	6,900
Families	%0	0%	100%	0%	100%	Families 0	0	2,588	0	2,588
Lone Household	100%	0%	%0	0%	100%	Lone Household 6,038	0	0	0	6,038
Group Household	0%	100%	%0	0%	100%	Group Household 0	1,725	0	0	1,725
						Total 12,938	1,725	2,588	0	17,250
						Share of total 75%	10%	15%	%0	100%
Sandridge										15
Scenario 2			Population 94 405	Persons / HH	No. Households	Average dwelling size				
Couple Household		6 097	2 00	10 101		1 hedroom				
Families	20%	3,484	3.50	12,194		2 bedroom 70				
Lone Household	35%	6,097	1.00	6,097		3 bedroom 110				
Group Household	10%	1,742	2.25	3,920		4+ bedroom 130				
Total	100%	17,420	1.98	34,405			na Tunna (had			
	1 bedroom 2	bedroom	3 bedroom	4+ bedroom	Total	1 bedroom 2 bedro	oom 3 bec	droom 4	+ bedroom Tot	
Couple Household	20%	60%	19%	1%	100%	Couple Household 1,219	3,658	1,158	61	6,097
Families	5%	40%	54%	1%	100%	Families 174	1,394	1,881	35	3,484
Lone Household	50%	45%	5%	0%	100%	Lone Household 3,049	2,744	305	0	6,097
Group Household	5%	74%	20%	1%	100%	Group Household 87	1,289	348	17	1,742
						Total 4,529	9,085	3,693	113	17,420
						Share of total 26%	52%	21%	1%	100%

Fishermans Bend Precinct Calculator - Household and Dwelling Scenarios

Fishermans Bend Precinct Calculator - Household and Dwelling Scenarios

Attachment 6 – Further information on annual average household and dwelling additions in the Inner Metro Region in the past five years

## Prepared by David Sykes, Principal Demographer, DELWP, 22 March 2018

- 14. The tables below present information on household and dwelling additions in the Statistical Areas Level 2 (SA2) across the municipalities of the City of Melbourne, City of Port Phillip and City of Yarra.
- 15. See the map below for definition of areas. Note where an SA2 crosses LGA boundaries it has only been included once in a table, and all development across the SA2 is captured within a single figure.
- 16. Dwelling additions are presented from two sources:
  - ABS Building Approvals this dataset covers dwellings approved and expected to be constructed in the five calendar years from January 2013 to December 2017. Construction is lagged from date of approval by six months in the case of separate houses, 12 months in the case of townhouses and apartments up to two stories, and by 24 months for apartments in blocks of three storeys or more. These lags are consistent with research conducted by the ABS, and with comparisons to DELWP Housing Development Data for corresponding periods.
  - DELWP Housing Development Data this dataset covers dwellings tracked as completed over the five calendar years from January 2012 to December 2016 (the latest data available). The data are derived from detailed analysis of aerial photography.
- 17. Though the data cover slightly different periods, there is considerable correspondence, and the relative scale of dwelling completions between areas is consistent (e.g. Melbourne SA2 the CBD has the highest numbers, while Carlton North Princess Hill SA2 has very low numbers).
- 18. Where numbers are notably larger for the more recent five-year period (e.g. Southbank, Port Melbourne Industrial) this is due to larger numbers of completions in 2017. For example, Southbank averaged approximately 1,000 completions across the calendar years 2013 to 2016, but slightly over 2,000 completions are estimated for 2017.
- 19. Household additions are derived directly from dwelling additions. A blanket assumption is made in this analysis that household additions are equivalent to 90 per cent of dwelling completions, allowing for vacant dwellings. Total vacancy rates do vary from area to area, but the vast majority of dwellings added over this period are high-rise apartments, and the similarity of vacancy rates between areas for similar dwelling types makes a simple assumption valid.

Statistical Areas (Level 2)	Estir Build	mated via ABS ling Approvals	Trac Housing Deve	ked via DELWP elopment Data
and Local Govt Areas	Total 5 yrs to 2017	Annual Average	Total 5 yrs to 2016	Annual Average
Carlton	2,504	501	2,323	465
Docklands	4,368	874	4,602	920
East Melbourne	531	106	37	7
Flemington Racecourse	0	0	0	0
Kensington (Vic.)	145	29	308	62
Melbourne	11,034	2,207	10,971	2,194
North Melbourne	2,958	592	2,894	579
Parkville	577	115	599	120
South Yarra - West	410	82	409	82
Southbank	6,509	1,302	4,932	986
West Melbourne	0	0	0	0
Total in City of Melbourne	29,036	5,807	27,075	5,415
Albert Park	620	124	327	65
Elwood	323	65	340	68
Port Melbourne	729	146	708	142
Port Melbourne Industrial	285	57	19	4
South Melbourne	1,811	362	1,206	241
St Kilda	2,561	512	2,336	467
St Kilda East	246	49	247	49
Total in City of Port Phillip	6,575	1,315	5,183	1,037
Abbotsford	1,952	390	2,308	462
Carlton North - Princes Hill	44	9	34	7
Collingwood	1,168	234	1,217	243
Fitzroy	570	114	524	105
Fitzroy North	601	120	504	101
Richmond (Vic.)	2,165	433	2,559	512
Yarra - North	294	59	285	57
Total in City of Yarra	6,794	1,359	7,431	1,486

#### Five Years of Estimated and Tracked Dwelling Completions, Inner Metro Statistical Areas

Sources: Building Approvals Australia (ABS 8731.0)

Housing Development Data (DELWP)

Statistical Areas (Level 2)	Estir Build	mated via ABS ling Approvals	Estima Housing Deve	ted via DELWP elopment Data
and Local Govt Areas	Total 5 yrs to 2017	Annual Average	Total 5 yrs to 2016	Annual Average
Carlton	2,254	451	2,091	418
Docklands	3,931	786	4,142	828
East Melbourne	478	96	33	7
Flemington Racecourse	0	0	0	0
Kensington (Vic.)	131	26	277	55
Melbourne	9,931	1,986	9,874	1,975
North Melbourne	2,662	532	2,605	521
Parkville	519	104	539	108
South Yarra - West	369	74	368	74
Southbank	5,858	1,172	4,439	888
West Melbourne	0	0	0	0
Total in City of Melbourne	26,132	5,226	24,368	4,874
Albert Park	558	112	294	59
Elwood	291	58	306	61
Port Melbourne	656	131	637	127
Port Melbourne Industrial	257	51	17	3
South Melbourne	1,630	326	1,085	217
St Kilda	2,305	461	2,102	420
St Kilda East	221	44	222	44
Total in City of Port Phillip	5,918	1,184	4,665	933
Abbotsford	1,757	351	2,077	415
Carlton North - Princes Hill	40	8	31	6
Collingwood	1,051	210	1,095	219
Fitzroy	513	103	472	94
Fitzroy North	541	108	454	91
Richmond (Vic.)	1,949	390	2,303	461
Yarra - North	265	53	257	51
Total in City of Yarra	6.115	1.223	6.688	1,338

#### Five Years of Estimated Household Additions, Inner Metro Statistical Areas

#### Sources:

Building Approvals Australia (ABS 8731.0) Housing Development Data (DELWP)

## Map of Statistical Areas Level 2 (SA2) and Local Government Areas, Inner Metro Region

(LGA names and boundaries are bold dark grey. SA2 names and boundaries are in fine black)

