

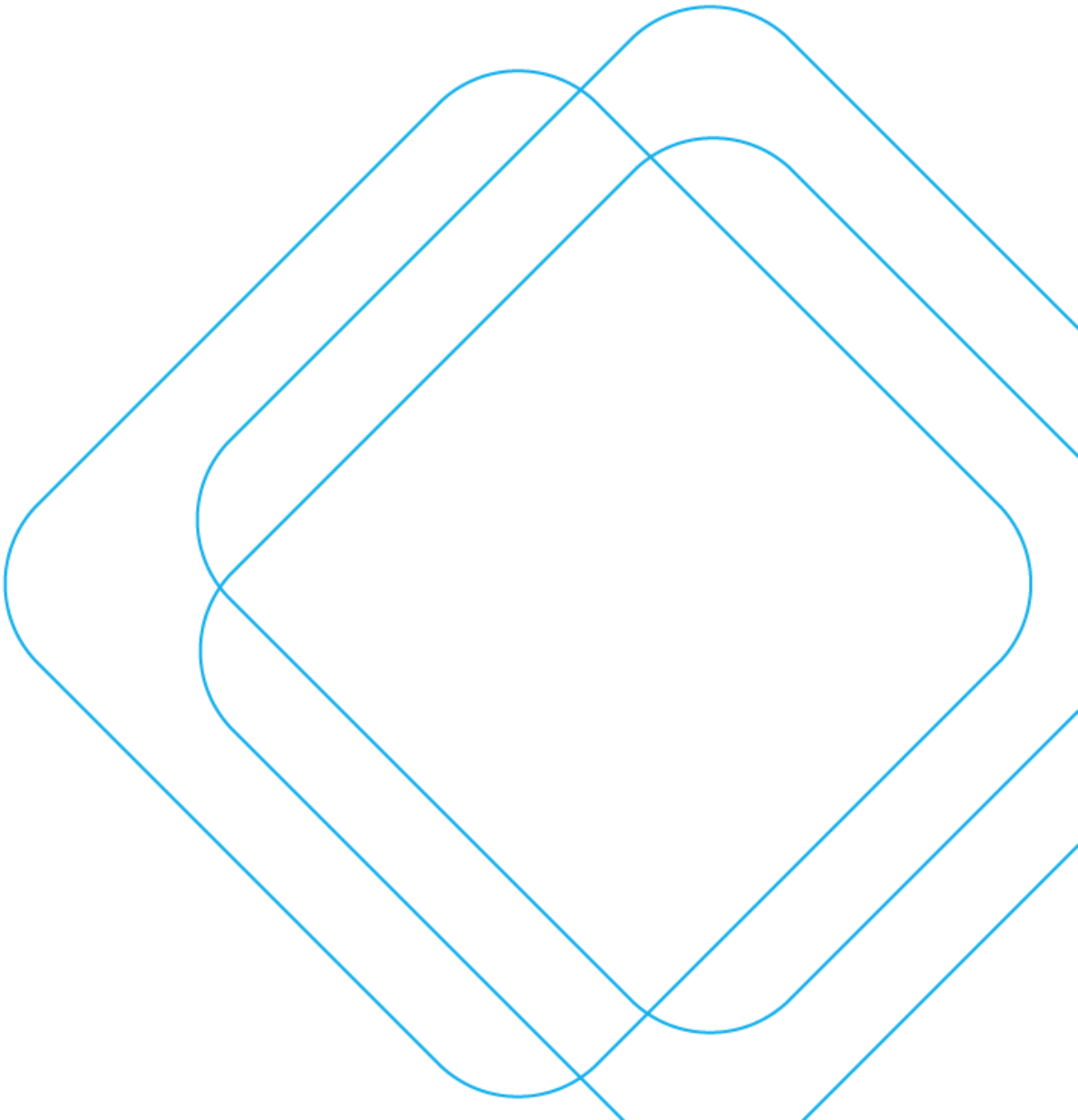
SCT Consulting

WILLOUGHBY SOUTH ON-STREET PARKING STUDY

DRAFT

31 OCTOBER 2023

SCT Consulting acknowledges the traditional owners of the lands on which we work.
We pay our respects to Elders past, present and emerging.



Quality Assurance

Project:	Willoughby South On-Street Parking study		
Project Number:	00496		
Client:	Willoughby City Council	**ABN:**	47 974 826 099
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Version	Date	Details
1.0	26 October 2023	On-Street Parking Study for council review
2.0	31 October 2023	Draft On-Street Parking Study for consultation

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Executive summary

SCT Consulting has been engaged by Willoughby City Council to undertake a review of the on-street parking controls for the Willoughby South precinct (study area). The study area is generally characterised by low to medium density housing, retail, and businesses along Willoughby Road and Frenchs Road. Buses along Willoughby Road and Artarmon station to the west of the study area provide access to Sydney CBD (within 15 – 20 minutes).

Under existing conditions, parking is predominantly unrestricted, with some time restricted parking closer to the Willoughby commercial area and resident permit areas along Edward and Penhurst Streets. Key on-street parking users include residents, retail staff/visitors, commuters and construction workers.

The new high density residential development at the former Channel 9 site, now known as Nine by Mirvac, at 6-30 Artarmon Road is currently under construction. It is likely to add to the parking pressures in the study area. With the expected growth in parking demand, Council is seeking to revisit the parking controls in Willoughby South to ensure that on-street parking is suitably managed and provided equitably to the different user groups.

Willoughby Council's Willoughby Street Parking Strategy 2017 identifies that parking should be managed so that occupancy remains in the range of 45-85%. This has several benefits to the community, including reduction in vehicles searching to find a parking space or some users unable to find a parking space at all.

On-street parking occupancy surveys for the majority of the study area were conducted in February 2022 for Tuesday, Thursday and Saturday. Additionally, Frenchs Road parking occupancy data was collected in October 2023 for the same days of the week. The data shows that several streets already meet the criteria for the introduction of on-street parking controls. These include sections of Artarmon Road, Armstrong Street, Gorman Street, Julian Street and Borlaise Street.

With the new Channel 9 site being developed, it is anticipated that on-street parking occupancy will worsen.

Council is seeking to proactively manage parking restrictions so that as new residents move into the suburb, parking occupancy issues don't worsen. This will also have travel behaviour benefits by encouraging future residents to avoid owning more cars than parking spaces they have for their unit - promoting sustainable travel behaviours.

The following time restrictions are recommended to ensure that on-street parking is used efficiently, fairly and equitably by all users:

– 4P parking restrictions for spaces that are within 400m of a high-density residential development. This would help prevent overspill and discourage excessive long stay behaviour.

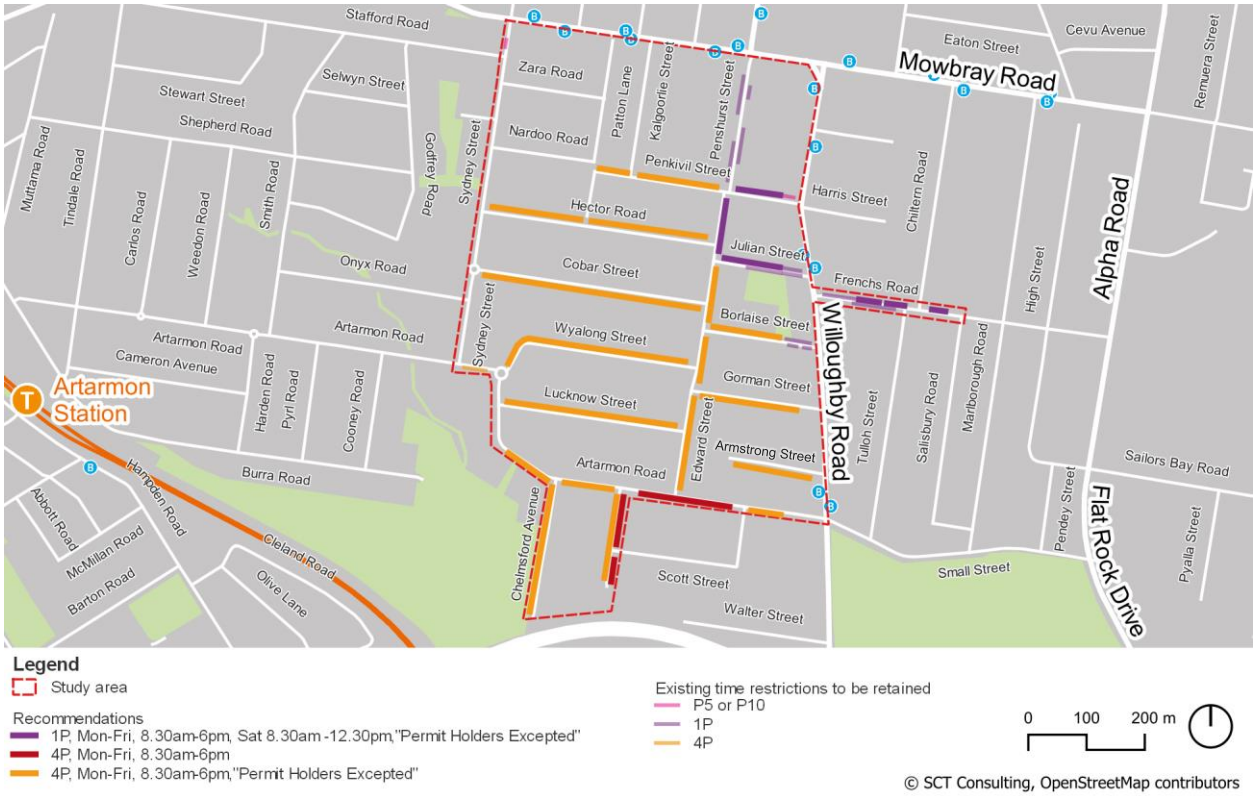
– 4P parking restrictions for spaces that are within 400m of the Willoughby Road bus stops.These city bound bus stops may be attractive for commuters that park within the walking catchment. The proposed parking restriction would help discourage park and ride behaviour and to encourage local residents to walk to the bus stops.

– 1P parking restrictions for spaces that are within a 200m walking catchment of shops. This would encourage turnover on streets near the Willoughby South retail frontages.

In addition to time restrictions, it is recommended that community consultation and feedback be used to guide revision of the proposed parking controls. Post implementation occupancy surveys, after the new parking restrictions and completion of residential developments should be undertaken in order to assess the efficacy and suitability of the new parking restrictions

The proposed time restrictions are shown in **Figure E-1** and **Appendix B**.

Figure E-1 Willoughby South parking recommendations



1.0 Introduction

1.1 Background

The management of public on-street parking is important in supporting the economic and social well-being of local centres and their adjacent neighbourhoods. The Willoughby City Council has been actively monitoring on-street parking conditions around the Willoughby Local Government Area (LGA).

SCT Consulting has been engaged by Willoughby City Council to undertake a review of the on-street parking controls for the Willoughby South precinct (study area). The study area for this parking study is illustrated in **Figure 1-1**.

Figure 1-1 Willoughby South study area



Legend

Study area

0 200 400 m

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The study area is generally characterised by low to medium density housing, retail, and businesses along Willoughby Road and Frenchs Road. Buses along Willoughby Road and Artarmon station to the west of the study area provide access to Sydney CBD (within 15 – 20 minutes).

The new high density residential development at the former Channel 9 site at 6-30 Artarmon Road is currently under construction. It is likely to add to the parking pressures in the study area.

With the expected growth in parking demand, Council is seeking to revisit the parking controls in Willoughby South to ensure that on-street parking is suitably managed and provided equitably to the different user groups.

1.2 Purpose of this study

This study aims to review the on-street parking conditions for the study area and provide recommendations to proactively manage parking in and around the Willoughby local centre.

The following tasks were undertaken as part of this study:

– Two site visits through the study area to better understand existing parking demand and provision.

– Parking occupancy survey for Frenchs Road from Willougby Road to Salisbury Road, on a Tuesday, Thursday, and Saturday, from 6am to 8pm. The survey was conducted the first week after the spring school holidays (the week of 9 October 2023) to ensure the survey captures typical travel behaviour.

– Review of parking survey data conducted in February 2022

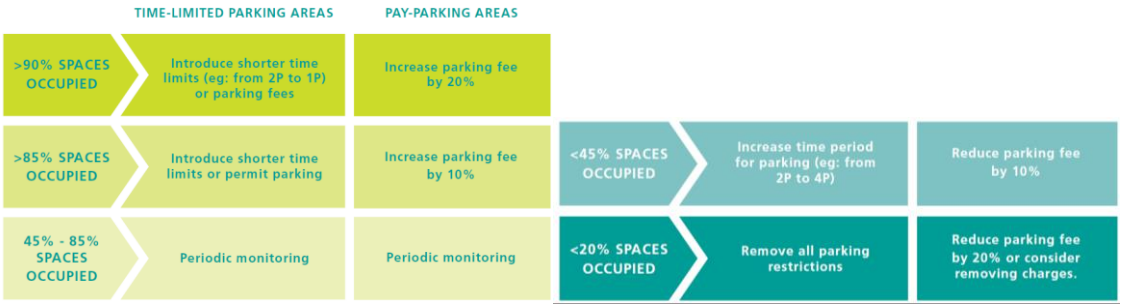
– Insights and on-street parking recommendations in line with the existing parking data review, submissions from local residents, and the expected residential growth south of the precinct.

2.0 Strategic context

2.1 Willoughby Street Parking Strategy 2017

The Willoughby Street Parking Strategy provides a framework for consistent and transparent decision making to promote the efficient, fair and equitable use of available street parking. The strategy adopts a parking occupancy range between 45% and 85% as the optimum capacity for parking. Generally, once parking occupancy exceeds 85%, more vehicles struggle to find the remaining parking spaces and circulate local streets, leading to unnecessary traffic. **Figure 2-1** illustrates Council's approach to managing parking through the implementation of time restrictions based on parking occupancies.

Figure 2-1 Council's approach to managing on-street parking



Source: Willoughby Parking Strategy, 2017

Key issues raised through the parking strategy community consultation relevant to the study area include:

– Commuter parking impacts resident parking, especially in the centres and near public transport. Middle Harbour Ward Councillors highlighted the commuter parking issues around Garland Road, Frenchs Road, Beauchamp Park and Penhurst Street.

– Growing resident population with added pressure for street parking space

– Constrained parking to service local businesses

– Low support for an increase in amount and price of metered parking

– Need for greater numbers of dedicated car share spaces.

2.1.1 Resident parking policy

Resident parking schemes are intended to prioritise local residents with an inadequate off-street parking supply. Under the scheme, eligible residents can park without time restrictions in their resident parking zone. The resident parking permit eligibility criteria and fees are identified below in **Table 2-1** and **Table 2-2**.

Table 2-1 Resident parking permits eligibility criteria - Strata title property (apartments and units)

Off-street parking spaces vs car ownership	Number of permits	Fees (2023-2024)
Two off-street parking	No permit	-
One off-street parking + 1 car	No permit	-
One off-street parking + 2 cars	One permit	$51.50 (first vehicle) $100.00 (second vehicle)
No off-street parking + 2 cars	Two permits	
In April 1997 Council resolved not to issue resident parking permits to residents of newer high-rise apartments built in the Willoughby LGA, as this does not meet the intention of the control plan to provide parking for all residents off-street and to encourage the use of public transport.		

Source: Willoughby City Council conditions and eligibility for residential parking permits, Version 6, 2023

Table 2-2 Resident parking permits eligibility criteria - Torren title property (house, duplex, detached and semi detached house)

Off-street parking spaces vs car ownership	Number of permits	Fees (2023-2024)
Three or more off-street parking	No permit	-
Two off-street parking + 2 cars	No permit	
Two off-street parking + 3 cars	One permit	$51.50 (first vehicle) $100.00 (second vehicle) $282.50 (third vehicle)
One off-street parking + 2 cars	One permit	
One off-street parking + 3 cars	Two permits	
No off-street parking + 3 cars	Three permits	

Source: Willoughby City Council conditions and eligibility for residential parking permits, Version 6, 2023

3.0 Existing conditions

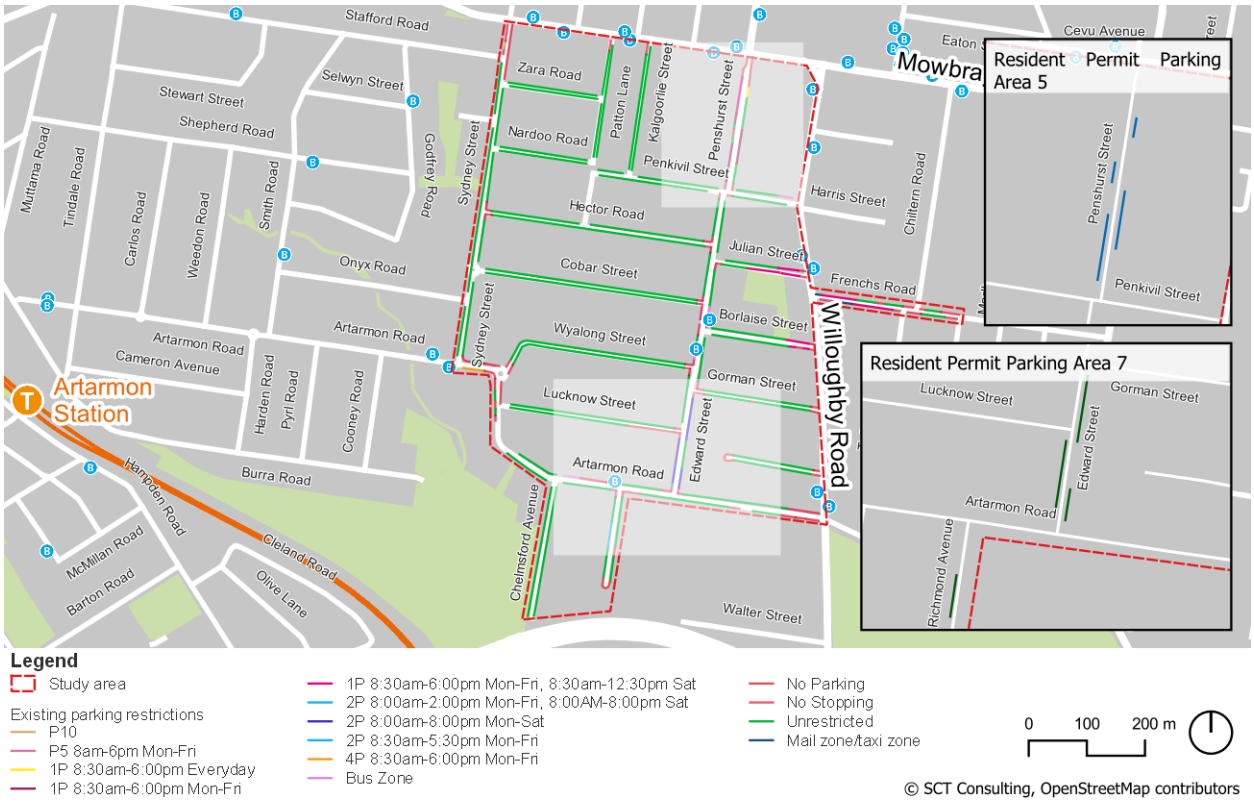
3.1 Parking controls

The majority of on-street parking in the study area is unrestricted. Time restricted parking (1P or 2P) is generally implemented for small sections of less than 100m along the streets adjacent to the Willoughby Local Centre, and on Edward Street and Penshurst Street.

Willoughby Road (which is not included as part of this study), also provides 1/2P and 1P parking outside the AM and PM directional peak hour clearway restrictions. This quick turn over parking supports visits to local businesses and parks in the vicinity of the study area.

Two off-street Council car parks (approximately 40 spaces) are also accessible from Borlaise Street. Currently, resident parking areas, where permit holders are exempt from time restrictions, are limited to Penshurst Street, the southern section of Edward Street and a small section of Richmond Avenue. The existing parking controls within the study area are shown in **Figure 3-1**.

Figure 3-1 Existing parking restrictions



3.2 Car ownership and on-street parking demand

Car ownership and off-street parking availability are two influencing factors affecting on-street parking demand. Higher car ownership with limited off-street parking pushes residents to park on-street. This can lead to competing demands with other on-street parking users such as visitors, carers, tradesmen, car share vehicles, commuters or active transport users.

The Census 2021 data indicates that 43 per cent of households in Willoughby (suburb) have access to two or more vehicles. The typical car ownership characteristics for high density dwellings (four to eight-storey apartments) in Willoughby are outlined in **Table 3-1**. The data indicates that approximately 60% of households living in apartments own one car, and 20% having access to two or more vehicles. Depending on the level of off-street parking provision in high density dwellings, there may be a potential for parking to spill onto the surrounding street network.

Table 3-1 Dwelling type vs car ownership in Willoughby (SA2)

Ownership	Studio	1 bedroom	2 bedrooms	3 bedrooms	Total households
No motor vehicles	13	22	28	3	66
One motor vehicle	22	77	140	44	283
Two motor vehicles	0	8	43	29	80
Three motor vehicles	0	0	7	4	11
Four or more motor vehicles	0	0	3	0	3
Total	35	107	221	80	433
Car space demand (per unit)	**0.6**	**0.9**	**1.2**	**1.4**	-

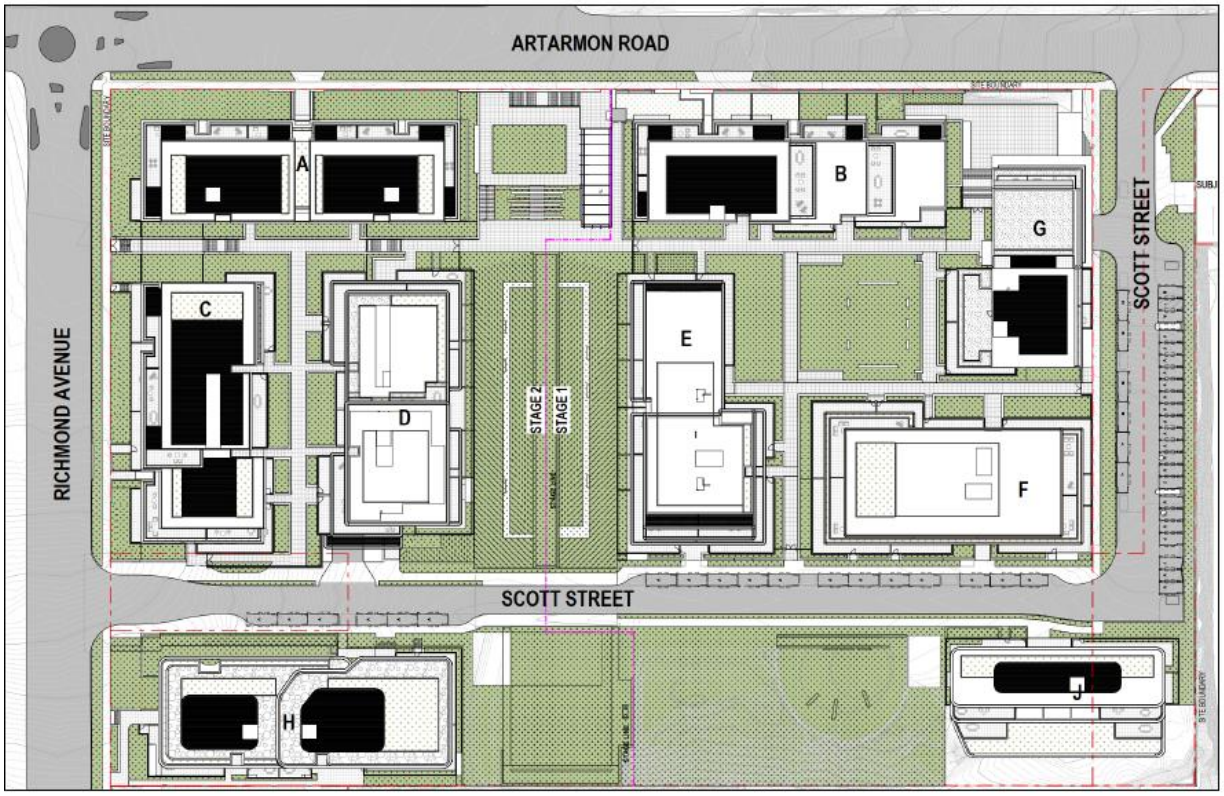
Note: 2021 Census, Willoughby Statiscal Area 2 (SA2) car ownership data for 4-8 storey apartments

3.3 NINE by Mirvac

Nine by Mirvac (NINE), the high density residential development at 6-30 Artarmon Road is expected to deliver 409 dwellings across nine residential buildings. A mix of studio, one, two and three bedroom apartments along with 300m^2 of retail space will be delivered over two stages. Stage one, which includes 249 dwellings and retail space is already completed. Stage two consisting of an additional 189 dwellings is currently under construction and forecast to be completed by early 2024. Scott Street will run through the site with 2P time restricted parking provided on street.

The site layout is shown in **Figure 3-2**

Figure 3-2 Nine by Mirvac residential development site plan



Source: Ason Group, Traffic and Transport Assessment, 2020

It is anticipated that without measures to restrict on-street parking, there may be the potential for parking overspill into the surrounding street network. NINE is providing a total of 531 (438 residential, 83 visitor and 10 retail) car parking spaces on site.

Comparing the proposed development parking rates against the Willoughby SA2 demand rates (detailed in **Section 3.3**), the development has the potential to have approximately 57 cars overspill onto the surrounding street network. This is detailed in **Table 3-2**.

Table 3-2 Forecast high density residential parking overspill

	Studio	1 bedroom	2 bedrooms	3 bedrooms
Demand[1]	0.6	0.9	1.2	1.4
Supply[2]	0.5	1	1	1.25
Overspill per unit	0.1	Nil	0.2	0.2
Proposed number of dwellings	2	81	201	125
Overspill estimated	0	Nil	35	22

1. Demand is based on Willoughby SA2 analysis, as discussed in Section 3.2
2. Supply is based on the parking rates as per the Traffic and Transport Assessment (Ason Group, 2020)

Time restricted parking on adjacent streets can help manage parking occupancy by encouraging residents to utilise off-street parking and promote parking turnover so that the street can be used fairly by all nearby residents. Council is considering a proactive approach in anticipation of an increase in on-street parking demand.

3.4 Parking surveys

On-street parking surveys were undertaken in February 2022 by Council to review the parking demand within the study area (excluding Frenchs Road). An additional survey for Frenchs Road was conducted in October 2023 to provide a more holistic understanding of parking behaviour around the Willoughby Local Centre and residential areas. The surveys were conducted on the following days:

– February 2022 weekday and weekend surveys: Tuesday 8 Feb 2022 (8am to 6pm), Thursday 11 Feb 2022 (8am to 6pm) and Saturday 5 Feb 2022 (8am to 12pm)

– Frenchs Road: Tuesday 10 Oct 2023 (6am to 8pm), Thursday 12 Oct 2023 (8am to 6pm) and Saturday 14 Oct 2023 (6am – 8pm).

3.4.1 Parking supply

The survey recorded 1078 parking spaces within the Willoughby South study area. A breakdown of on-street parking supply is illustrated below in **Table 3-3**.

Table 3-3 Willoughby study area parking supply

Restriction	Parking supply
Unrestricted	947
5P or 10P (5 or 10 minutes)	7
1P	70
1P (Authorised Residents Vehicles Excepted)	18
2P (Authorised Residents Vehicles Excepted)	24
4P (Permit Holders Excepted)	6
Mail zone, Taxi zone	6
Total	**1,078**

3.4.2 Parking demand and insights

Occupancy data collected by the on-street parking surveys were mapped out for each hour of the surveys, assisting with identification of trends or spikes in parking usage throughout the day. The occupancy maps are presented in **Appendix C.**

These maps tend to show a concentration of parking towards the activated frontages in the Willoughby Local Centre, Willoughby Road, and around the south of the study area near the NINE construction site. Occupancy in high demand areas varies throughout the survey period, with some streets exceeding over Council's 85% occupancy limit, meeting the criteria for providing time restrictions. This also suggests that further growth in demand may lead to a consistent occupancy of greater than 85%, and proactive action could be considered.

Current user groups that are assumed to be contributing to parking demand in the study area are:

– Residents: This area is a local residential area, with predominantly low-density residential dwellings. Parking on street is not uncommon. Residents typically park long term and will occupy the street before and after time restricted hours, both weekdays and weekends. The parking occupancy results suggest there is a baseline volume of residential parking throughout the study area.

– Retail staff/visitors: Staff and visitors would increase parking demand during retail hours near the Local Centre. This can be seen through the generally higher occupancy on the streets around Willoughby Road, such as Julian Street, Borlaise Street, Penkivil Street and Frenchs Road. Time restrictions in these areas appear to be effective in reducing occupancy rates which range between 45% and 75%. In contrast, unrestricted areas are sometimes at or above 85% capacity between 8AM to 11AM.

– Commuters: Buses along Willoughby Road provide a connection to Sydney CBD within 15 to 20 minutes. This can be an attractive option for some commuters to “park and ride” by driving to Willoughby, parking in unrestricted spaces and then walking to the bus. Commuters typically park during work hours, between 8AM and 6PM.

  Although not conclusive from the survey, commuter parking concerns have been raised by residents along Edward Street and other streets in the study area.

– Construction workers: A temporary parking demand group within the study area are construction workers that are part of the NINE development. Survey data showed a higher chance of unrestricted spaces near Artarmon Road and Richmond Avenue exceeding 85% occupancy. This occupancy drops after 3PM in the afternoon and falls below 45% by 5PM. This is representative of construction workers finishing their workday day and leaving the study area.

  - Site visits indicate that construction activities operate on Saturdays too, increasing weekend parking demand.
  - Completion of construction activities is likely to free up more on-street parking spaces in the adjacent streets. However, this demand many then be replaced by residents of the high density development.

4.0 Recommendations

Council's intention is to be proactive in ensuring that on-street parking in the Willoughby South area is used efficiently, fairly and equitably, while responding to community concern around excessive on-street parking occupancy. Introduction of parking controls may also encourage users to consider alternatives to car use such as active transport or public transport.

4.1 Key principles

Parking recommendations in this study are guided by the following principles, which are aligned with the Willoughby Street Parking Strategy:

- 85% occupancy target: This is acknowledged as the optimum usage of on-street parking facilities. For spaces that are constantly occupied at a higher rate than 85%, a shorter time limit is recommended (or introduction of time limits). In this study, projected increases to on-street occupancy are also being accounted for when determining changes in time limits.
- Parking restrictions to support residential and retail land use: Willougby South is predominantly a residential area with a Local Centre. As such, on-street parking should be aimed at supporting these land use functions.
    - Retail: To encourage turnover on streets near the Willoughby South retail frontages, 1P parking restrictions are recommended for spaces that are within a 200m walking catchment of shops. This is similar to existing restrictions at Julian Street, Borlaise Street and Frenchs Road. The 1P restriction allows users to visit the shops and have a meal, so supports business turnover.
    - Residents: Parking restrictions should facilitate fair use of on-street parking for residents and their visitors. To prevent overspill and discourage excessive long stay behaviour, 4P parking restrictions are recommended for spaces that are within 400m of a high-density residential development. The 4P restrictions enable visitors to residential dwellings to spend a substantial amount of time with friends and family, but make the location unattractive for use as long term car storage.

      This will support the intention of the development control plan by encouraging residents to use dedicated off-street parking instead.
    - Commuters: To discourage park and ride behaviour and to encourage local residents to walk to the bus stops, it is proposed that 4P parking restrictions are implemented within 400m of the Willoughby Road bus stops. These city bound bus stops may be attractive for commuters that park within the walking catchment.
- Staged implementation of parking restrictions: Given that this is a pro-active mitigation measure, Council's convention is to introduce additional parking controls on one side of the street only, namely the side with more parking spaces. This reduces the amount of change being introduced for each street and avoids "over doing" mitigation measures. It also allows residents who do not purchase a parking permit to still access on-street parking. This approach is currently applied in other parking areas such as Artarmon East, Artarmon West and Naremburn.
- Parking permits: Most of the proposed parking controls will allow for holders of parking permits to be exempt. This will reduce the impact of the time restrictions on local residents.
- Consistency of parking restrictions: Where possible, time restrictions should be consistent along the street. This reduces confusion for drivers looking for a parking spot and allows for easier monitoring of the effectiveness of parking restrictions. Council's intention in this study is to implement consistent time restrictions along streets where new parking controls are proposed.
- Community consultation: A pro-active parking response should involve the community's input, as residents and users of the on-street parking are the most familiar with the local parking situation. This study will revisit the proposed parking restrictions once community feedback has been received.

4.2 Recommendation: 4P time limit

Implement four hours (4P) time restricted parking within a 400m walking catchment around new high-density residential development.

In the cases of Wyalong Street and Hector Road, are the only roads which don't satisfy Council's criteria for 85% parking occupancy. As time restrictions are implemented on the other streets in the area, it is expected that demand would naturally overspill into these streets. To avoid undertaking multiple iterations of extensions to restrictions, these streets have been included in the proposal to extend restrictions.

Details for 4P recommendations are presented below.

Table 4-1 4P time limit recommendations

Item	Street	Recommendations
1.01	Artarmon Road	Convert five unrestricted parking spaces on the southern side of Artarmon Road, between Willoughby Road and proposed Scott Street to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.02		Convert 22 unrestricted parking spaces on the southern side of Artarmon Road, between Scott Street and Richmond Avenue to *4P, 8am-6pm Mon-Fri*
1.03		Convert nine unrestricted parking spaces on the southern side of Artarmon Road, between Richmond Avenue and Chlemsford Avenue to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.04		Convert seven unrestricted parking spaces on the southern side of Artarmon Road, between Chlemsford Avenue and 56 Artarmon Road to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.05	Richmond Avenue	Richmond Avenue is the closest street to the high-density development and has the highest incentive for overspill. Hence time restrictions are recommended on both sides of the street to maintain a balance between permit holders and other local residents and visitors. Convert 21 unrestricted parking spaces on the eastern side of Richmond Avenue to *4P, 8am-6pm Mon-Fri* Convert 18 unrestricted parking spaces on the western side of Richmond Avenue to *4P, 8am-6pm Mon-Fri*
1.06	Chelmsford Avenue	Convert 31 unrestricted parking spaces on the western side of Chlemsford Avenue to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.07	Edward Street	Convert 40 unrestricted parking spaces on the eastern side of Edward Street, between Artarmon Road and Julian Street, to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.08	Lucknow Street	Convert 25 unrestricted parking spaces on the northern side of Lucknow Street to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.09	Wylong Street	Convert 26 unrestricted parking spaces on the northern side of Wylong Street to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.10	Cobar Street	Convert 31 unrestricted parking spaces on the southern side of Cobar Street to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted* 24
1.11	Hector Road	Convert 36 unrestricted parking spaces on the northern side of Hector Road to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.12	Penkivil Street	Convert 25 unrestricted parking spaces on the northern side of Penkivil Street between Kalgoorlie Street and Penhurst Street, to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted* Retain *No Parking, 6am-12pm Tue-Fri*, at the frontage of 27 Pinkivil Street

Item	Street	Recommendations
1.13	Armstrong Street	Convert 15 unrestricted parking spaces on the southern side of Armstrong Street to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*
1.14	Gorman Street	Convert 20 unrestricted parking spaces on the southern side of Armstrong Street to *4P, 8am-6pm Mon-Fri, Permit Holders Excepted*

The only locations that are not 'Permit Holders Excepted' are sections of Artarmon Road and Richmond Avenue, which are along the frontage of the NINE site. These sections of the street shouldn't be permit holders excepted as new apartment users aren't eligible for permit parking, and the frontage of the site should support visitors to the NINE site.

4.3 Recommendation: 1P time limit

Implement one hour (1P) time restricted parking within a 200m walking catchment around retail/local centre. Details for 1P recommendations are presented in the table below.

Item	Street	Recommendations
2.01	Julian Street	Convert nine unrestricted parking spaces on the northern side of Julian Street to *1P, 8am-6pm Mon-Fri, 8.30am-12.30pm, Permit Holders Excepted*
2.02	Edward Street	Convert nine unrestricted parking spaces on the eastern side of Edward Street, between Julian Street and Pinkivil Street, to *1P, 8am-6pm Mon-Fri, 8.30am-12.30pm, Permit Holders Excepted*
2.03	Penkivil Street	Convert 13 unrestricted parking spaces on the northern side of Pinkivil Street, between Willoughby Road and Edward Street, to *1P, 8am-6pm Mon-Fri, 8.30am-12.30pm, Permit Holders Excepted*
2.04	Frenchs Road	Convert 11 unrestricted parking spaces on the northern side of Frenchs Road, between Willoughby Road and Chiltern Road to *1P, 8am-6pm Mon-Fri, 8.30am-12.30pm, Permit Holders Excepted*
2.05	Frenchs Road	Convert three unrestricted parking spaces on the northern side of Frenchs Road, between Chiltern Road and Sailsbury Street, to *1P, 8am-6pm Mon-Fri, 8.30am-12.30pm, Permit Holders Excepted*

All other existing unrestricted and time-restricted parking controls are recommended to be retained. This includes the 2P restrictions on the eastern side of Edward Street, between Artarmon Road and Lucknow Street, 1P restrictions on Penhurst Street and Taxi and Mail zones on French Road. The survey indicated these zones to mostly perform within the optimum occupancy range of 45% to 85%.

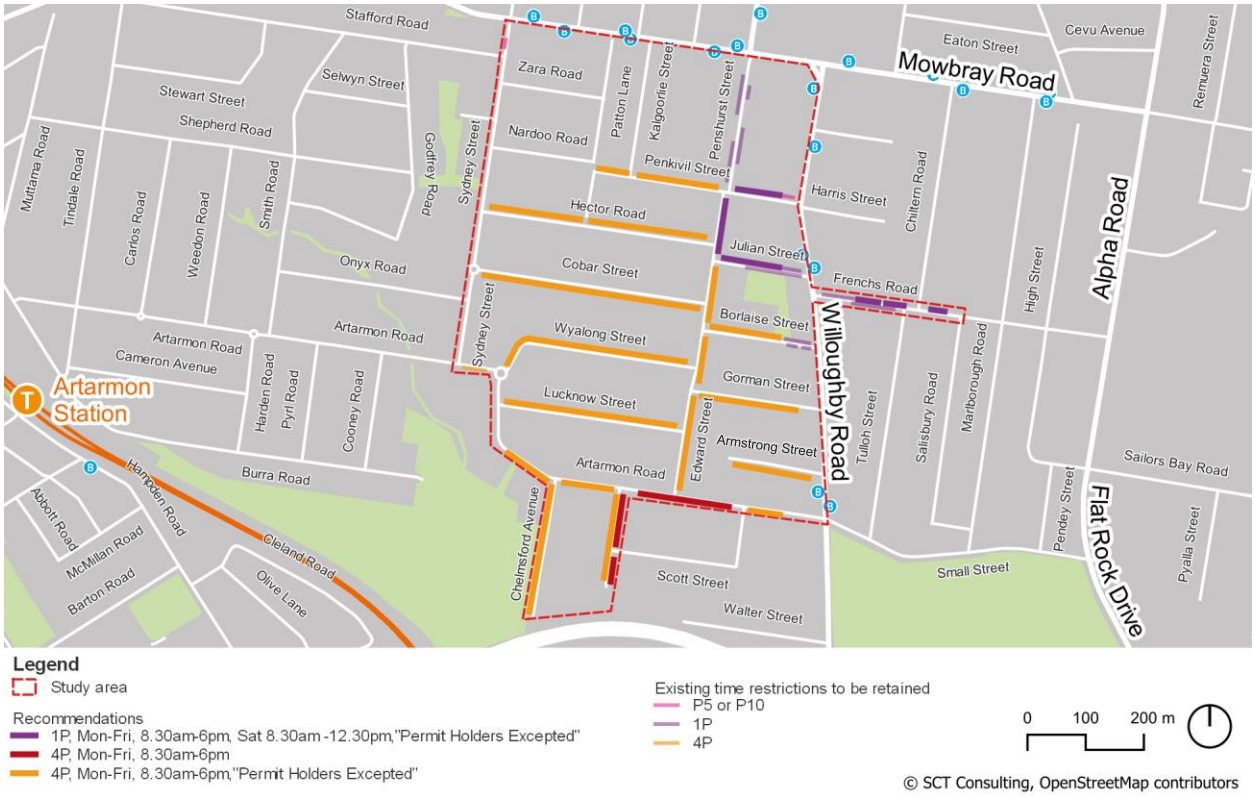
4.4 Recommendation: Post implementation monitoring

Pro-active application of parking restrictions will need to be monitored for effectiveness and impact on parking behaviour. It is recommended that council undertake a parking occupancy survey after the recommended parking restrictions are implemented and the NINE development is occupied.

Monitoring of parking occupancy will ensure that parking restrictions are achieving their purpose to maximise benefit for user groups and to promote efficient, fair and equitable use of available street parking.

The recommendations map is presented in **Figure 4-1** and **Appendix B**.

Figure 4-1 Willoughby South parking recommendations



5.0 Conclusion

Residential growth and competing user groups will continue to increase parking pressures in the Willoughby South study area. Under existing conditions, parking is predominantly unrestricted, with some time restricted parking closer to the Willoughby commercial area and resident permit areas along Edward and Penshurst Streets. Key on-street parking users include residents, retail staff/visitors, commuters and construction workers.

Occupancy in high demand areas varies throughout the survey period, with some streets exceeding over Council's 85% occupancy limit, meeting the criteria for providing time restrictions. To manage this, along with commuter parking concerns raised by residents, Council is seeking to proactively implement time restrictions within the study area.

The following time restrictions are recommended to ensure that on-street parking is used efficiently, fairly and equitably by all users:

– 4P parking restrictions for spaces that are within 400m of a high-density residential development. This would help prevent overspill and discourage excessive long stay behaviour.

– 4P parking restrictions for spaces that are within 400m of the Willoughby Road bus stops. These city bound bus stops may be attractive for commuters that park within the walking catchment. The proposed parking restriction would help discourage park and ride behaviour and to encourage local residents to walk to the bus stops.

– 1P parking restrictions for spaces that are within a 200m walking catchment of shops. This would encourage turnover on streets near the Willoughby South retail frontages.

In addition to time restrictions, it is recommended that community consultation and feedback be used to guide revision of the proposed parking controls. Post implementation occupancy surveys and monitoring for a period of 12 to 18 months after the new parking restrictions and completion of residential developments should be undertaken in order to assess the efficacy and suitability of the new parking restrictions.

APPENDIX A

EXISTING TIME RESTRICTIONS



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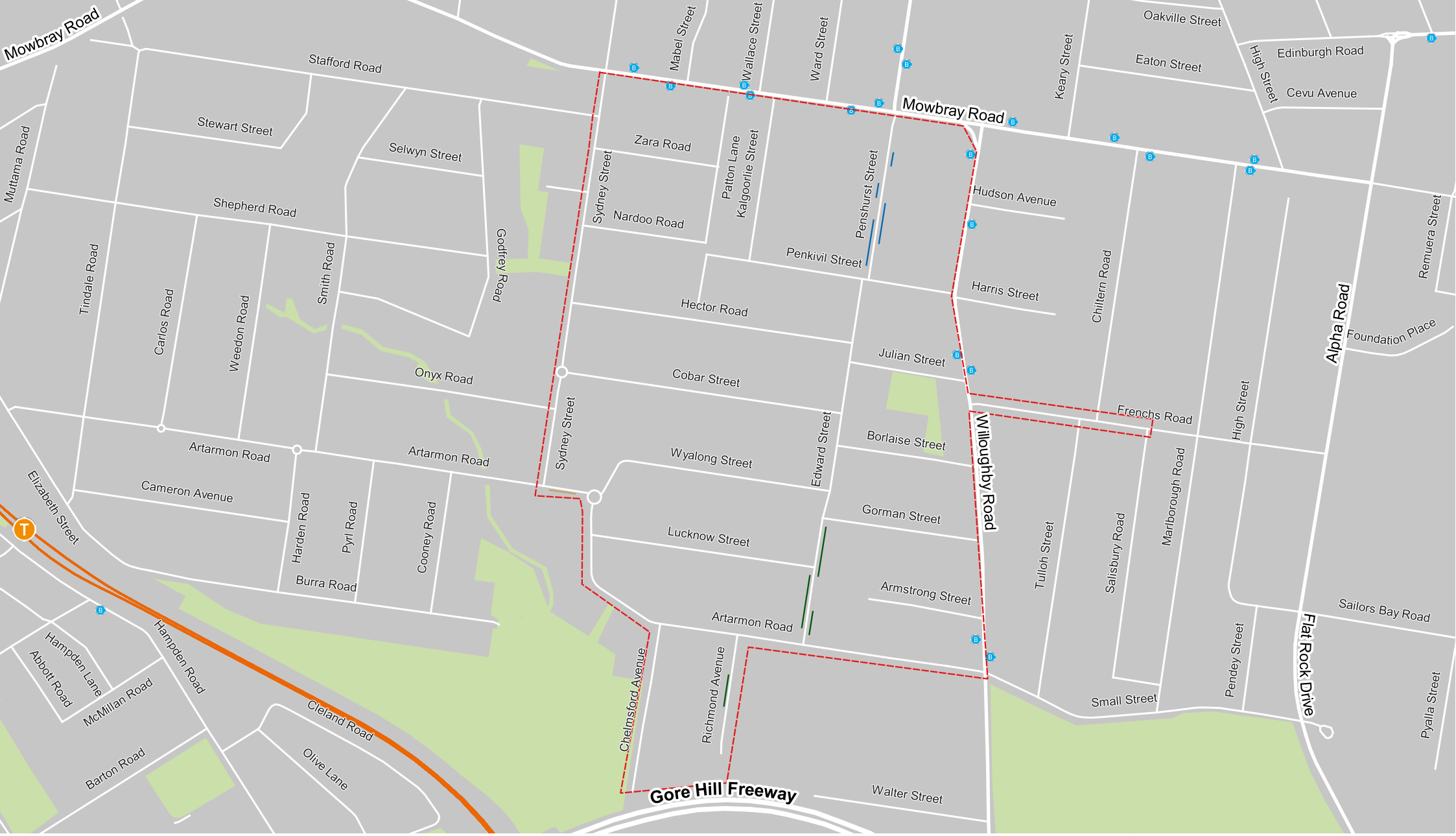
Study area

Existing parking restrictions

- P10
- P5 8am-6pm Mon-Fri
- 1P 8:30am-6:00pm Everyday
- 1P 8:30am-6:00pm Mon-Fri
- 1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat
- 2P 8:00am-2:00pm Mon-Fri, 8:00AM-8:00pm Sat
- 2P 8:00am-8:00pm Mon-Sat
- 2P 8:30am-5:30pm Mon-Fri
- 4P 8:30am-6:00pm Mon-Fri
- Bus Zone
- No Parking
- No Stopping
- Unrestricted

0 100 200 m

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Legend

Study area

Resident Permit Parking Zones

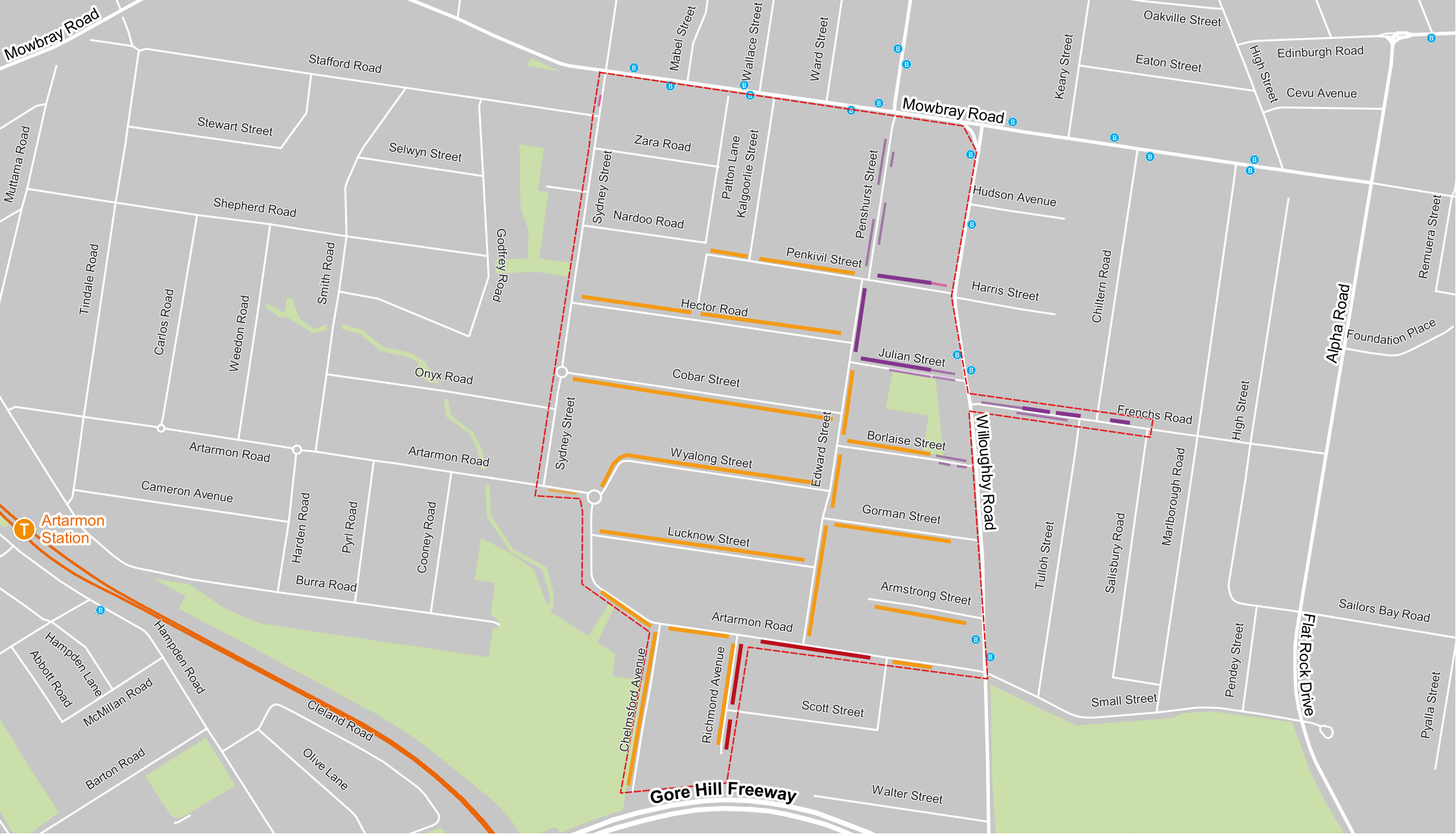
- Area 5
- Area 7
- Area 16

0 100 200 m

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APPENDIX B

PROPOSED PARKING RESTRICTIONS



Legend

Recommendations

- 1P, Mon-Fri, 8.30am-6pm, Sat 8.30am -12.30pm "Permit Holders Excepted"
- 4P, Mon-Fri, 8.30am-6pm
- 4P, Mon-Fri, 8.30am-6pm,"Permit Holders Excepted"

Existing time restrictions to be retained

- P5 or P10
- 1P
- 4P

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APPENDIX C

PARKING OCCUPANCY MAPS



Legend

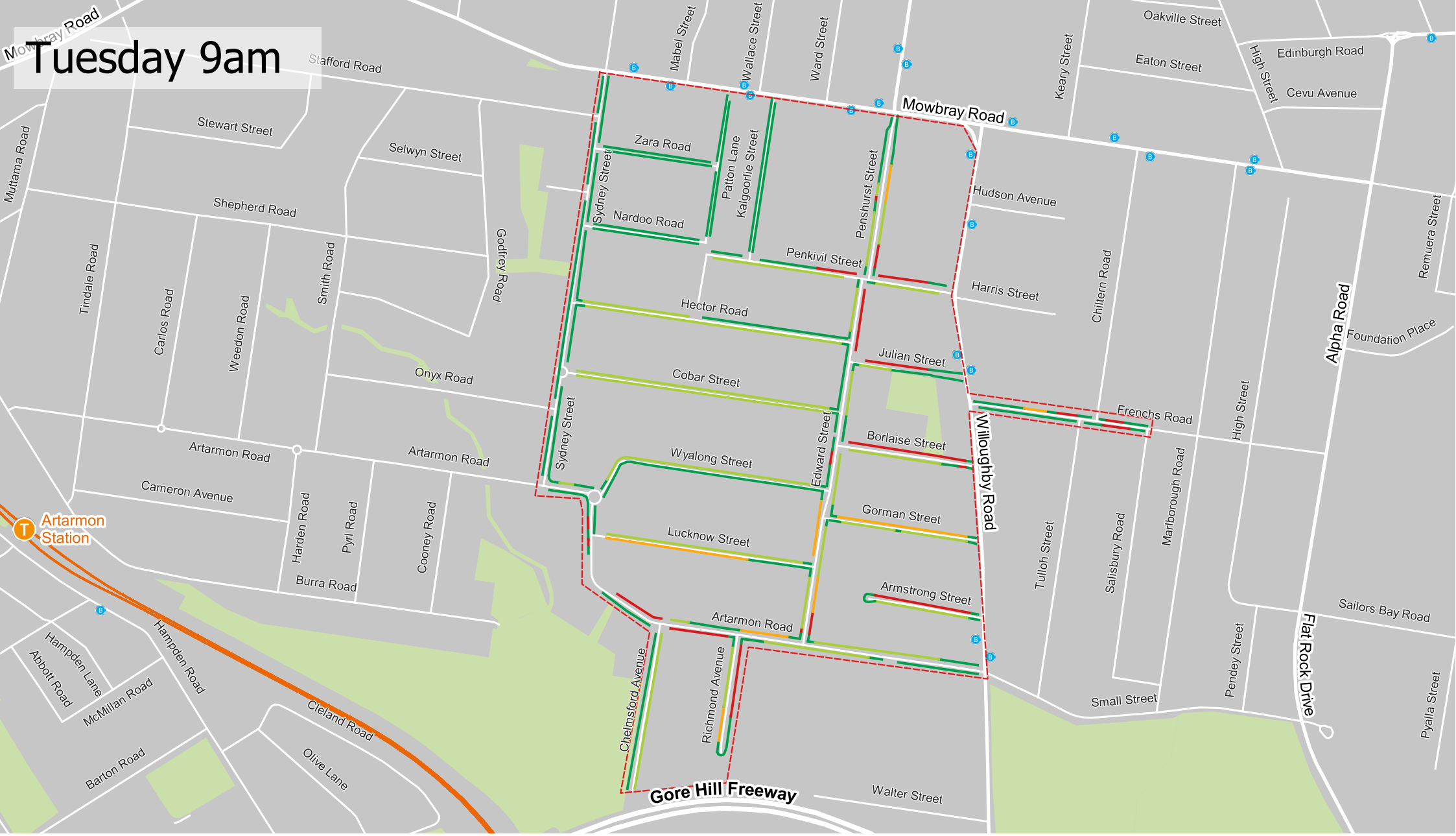
Study area

Hourly Occupancy

- <=45%
- 45 -75%
- 75 - 85%
- 85%>

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© SCT Consulting, OpenStreetMap contributors



Legend

Study area

Hourly Occupancy

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© SCT Consulting, OpenStreetMap contributors



Legend

Study area

Hourly Occupancy

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- 75 - 85%
- 85%>

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Tuesday 11am
Mowbray Road
Stafford Road
Mabel Street
Wallace Street
Ward Street
Keary Street
Oakville Street
Eaton Street
High Street
Edinburgh Road
Cevu Avenue
Stewart Street
Selwyn Street
Muttama Road
Shepherd Road
Tindale Road
Carlos Road
Weedon Road
Smith Road
Godfrey Road
Zara Road
Sydney Street
Patton Lane
Kalgoorlie Street
Penshurst Street
Nardoo Road
Penkivil Street
Hudson Avenue
Harris Street
Chiltern Road
Remuera Street
Alpha Road
Foundation Place
Hector Road
Julian Street
Cobar Street
Onyx Road
Sydney Street
Edward Street
Borlaise Street
Wyalong Street
Frenchs Road
Willoughby Road
Tulloh Street
Salisbury Road
Marlborough Road
Artarmon Road
Cameron Avenue
Artarmon Station
Harden Road
Pyrl Road
Cooney Road
Burra Road
Gorman Street
Lucknow Street
Armstrong Street
Artarmon Road
Sailors Bay Road
Flat Rock Drive
Pendey Street
Pyalla Street
Small Street
Hampden Lane
Abbott Road
McMillan Road
Hampden Road
Cleland Road
Barton Road
Olive Lane
Chelmsford Avenue
Richmond Avenue
Gore Hill Freeway
Walter Street
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Study area
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© SCT Consulting,
OpenStreetMap contributors



Legend

Study area

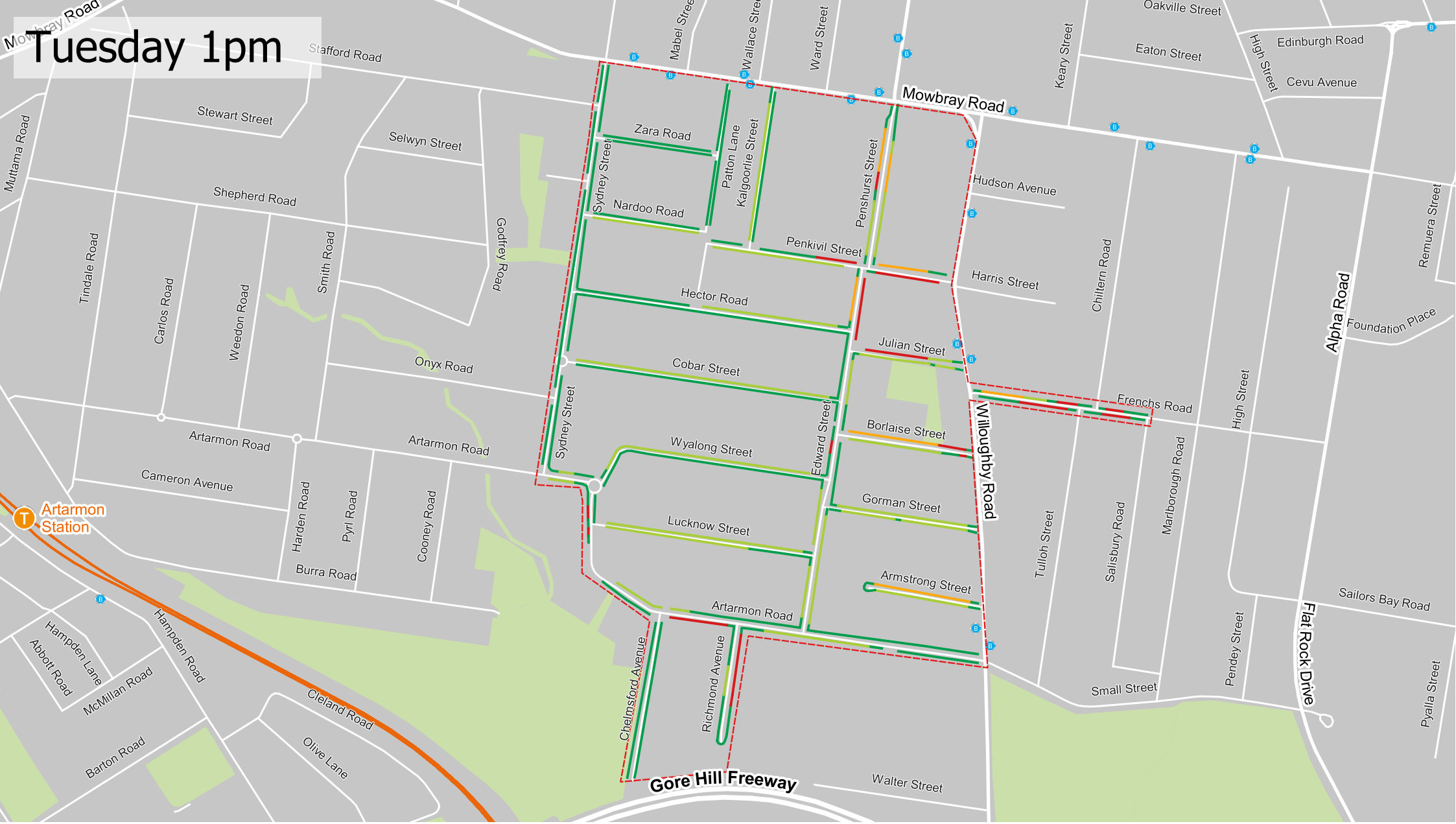
Hourly Occupancy

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Tuesday 1pm



Legend

Study area

Hourly Occupancy

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Study area

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Legend

Study area

Hourly Occupancy

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Tuesday 4pm
Mowbray Road
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Ward Street
Keary Street
Oakville Street
Eaton Street
High Street
Edinburgh Road
Cevu Avenue
Stewart Street
Selwyn Street
Muttama Road
Shepherd Road
Tindale Road
Carlos Road
Weedon Road
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Godfrey Road
Zara Road
Sydney Street
Nardoo Road
Patton Lane
Kalgoorlie Street
Penshurst Street
Penkivil Street
Hudson Avenue
Harris Street
Chiltern Road
Remuera Street
Alpha Road
Foundation Place
Hector Road
Julian Street
Cobar Street
Onyx Road
Sydney Street
Edward Street
Borlaise Street
Wyalong Street
Willoughby Road
Frenchs Road
High Street
Marlborough Road
Salisbury Road
Tulloh Street
Gorman Street
Lucknow Street
Armstrong Street
Artarmon Road
Artarmon Road
Artarmon Road
Cameron Avenue
Harden Road
Pyrl Road
Cooney Road
Burra Road
Artarmon Station
Hampden Road
Hampden Lane
Abbott Road
McMillan Road
Cleland Road
Barton Road
Olive Lane
Chelmsford Avenue
Richmond Avenue
Gore Hill Freeway
Walter Street
Small Street
Pendey Street
Flat Rock Drive
Sailors Bay Road
Pyalla Street
Legend
Study area
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© SCT Consulting,
OpenStreetMap contributors



Legend

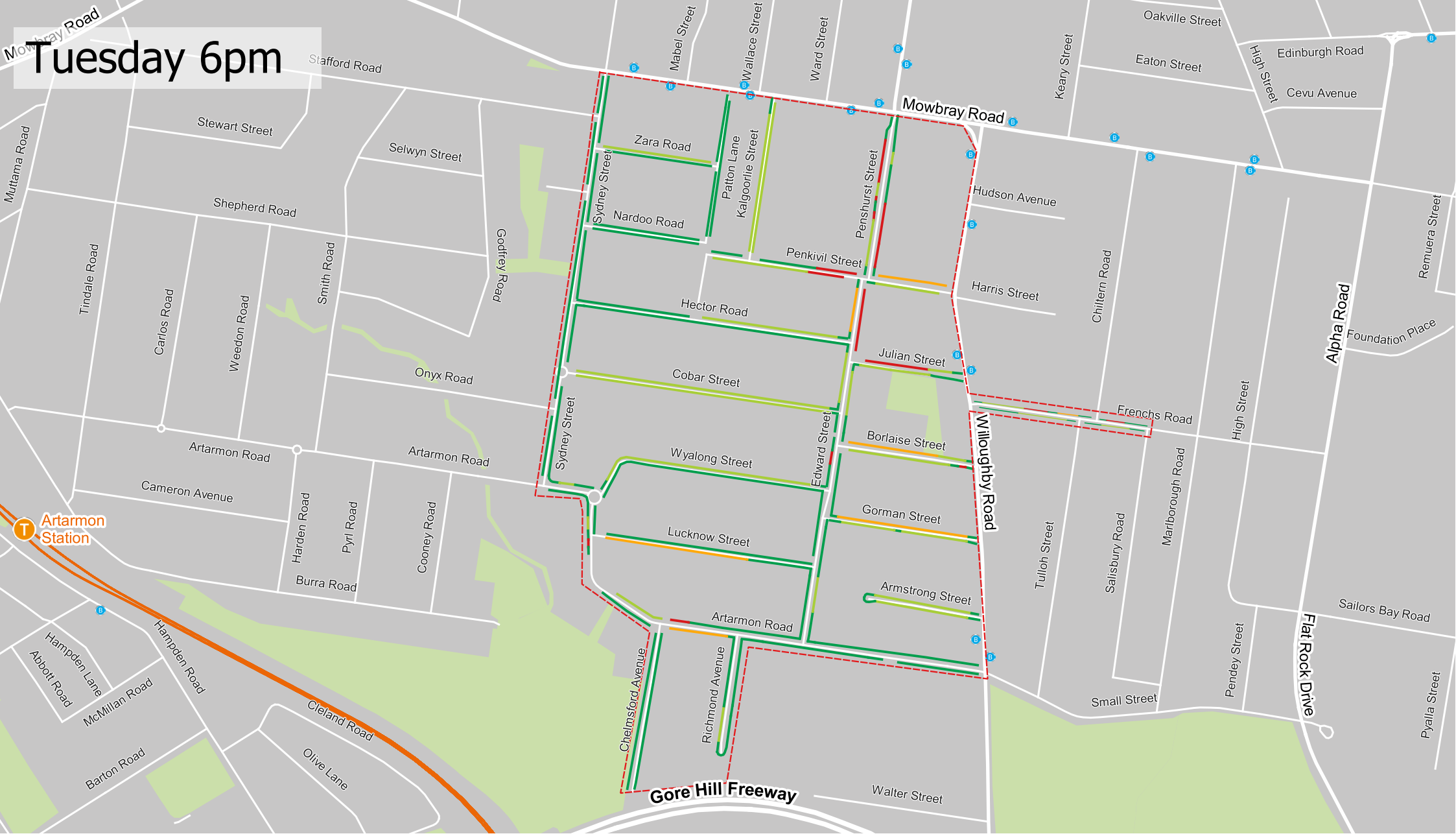
Study area

Hourly Occupancy

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Legend

Study area

Hourly Occupancy

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Study area

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Study area

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© SCT Consulting, OpenStreetMap contributors



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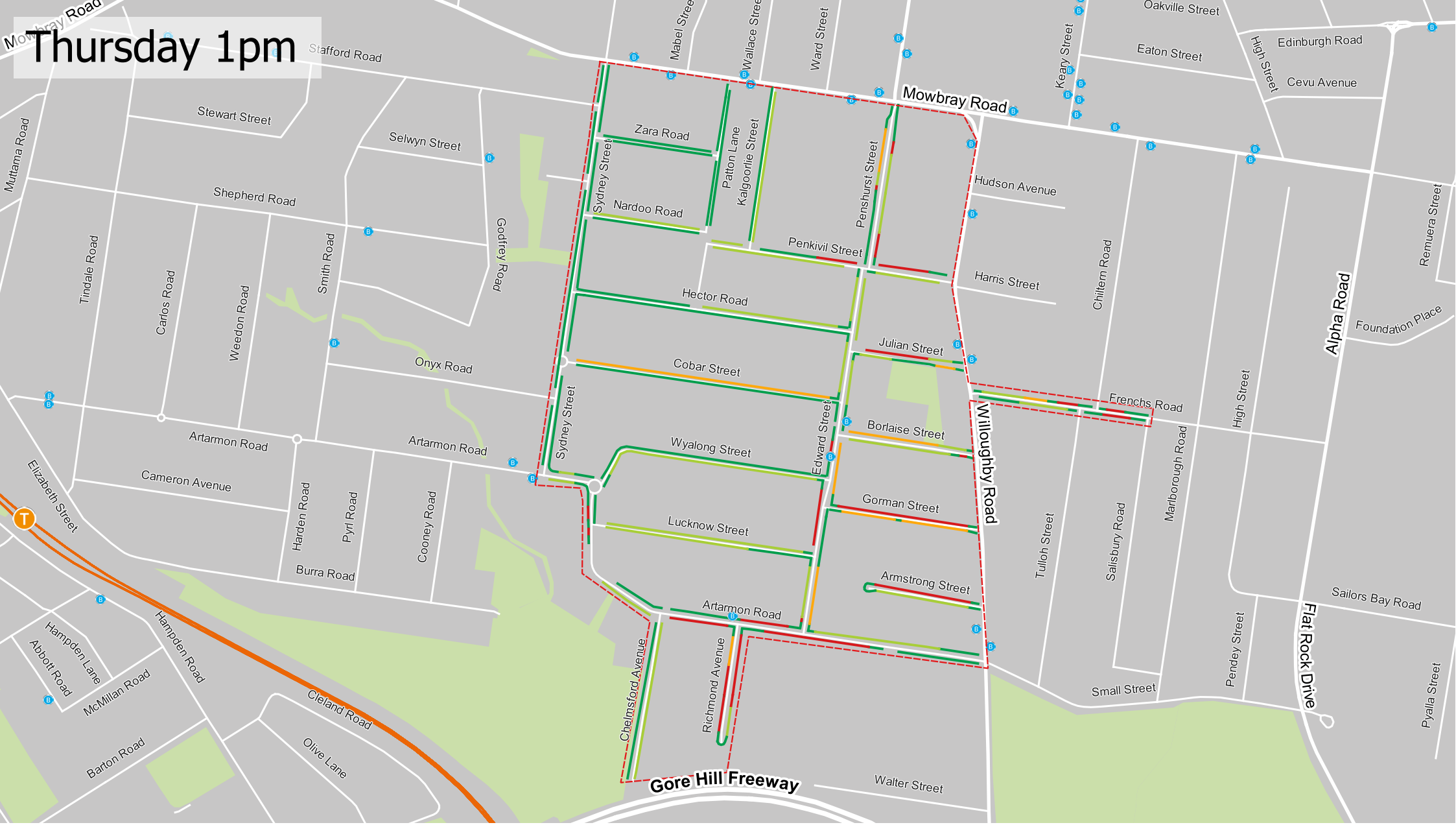
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Thursday 11am
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Stafford Road
Stewart Street
Selwyn Street
Shepherd Road
Onyx Road
Artarmon Road
Cameron Avenue
Burra Road
Barton Road
Olive Lane
Cleland Road
Hampden Road
Hampden Lane
Abbott Road
McMillan Road
Elizabeth Street
Muttama Road
Tindale Road
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Godfrey Road
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Ward Street
Keary Street
Oakville Street
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Edinburgh Road
Cevu Avenue
Zara Road
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Penkivil Street
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Chiltern Road
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Foundation Place
Hector Road
Cobar Street
Julian Street
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Borlaise Street
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Edward Street
Willoughby Road
Gorman Street
Lucknow Street
Armstrong Street
Artarmon Road
Chelmsford Avenue
Richmond Avenue
Tulloh Street
Salisbury Road
Marlborough Road
High Street
Sailors Bay Road
Flat Rock Drive
Pendey Street
Pyalla Street
Small Street
Walter Street
Gore Hill Freeway
Legend
Study area
Hourly Occupancy
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OpenStreetMap contributors


Thursday 12pm
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Stafford Road
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Selwyn Street
Shepherd Road
Onyx Road
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Burra Road
Barton Road
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Armstrong Street
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Gore Hill Freeway
Walter Street
Tulloh Street
Salisbury Road
Marlborough Road
Small Street
Pendey Street
Alpha Road
Foundation Place
Remuera Street
Sailors Bay Road
Flat Rock Drive
Pyalla Street
Legend
Study area
Hourly Occupancy
<=45%
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200 m
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Thursday 1pm



Legend

Study area

Hourly Occupancy

- <=45%
- 45 -75%
- 75 - 85%
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Thursday 2pm
Mowbray Road
Stafford Road
Mabel Street
Wallace Street
Ward Street
Keary Street
Oakville Street
Eaton Street
High Street
Edinburgh Road
Cevu Avenue
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Shepherd Road
Tindale Road
Carlos Road
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Smith Road
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Zara Road
Sydney Street
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Patton Lane
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Pyalla Street
Small Street
Walter Street
Chelmsford Avenue
Richmond Avenue
Gore Hill Freeway
Hampden Lane
Abbott Road
McMillan Road
Hampden Road
Cleland Road
Barton Road
Olive Lane
Legend
Study area
Hourly Occupancy
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© SCT Consulting,
OpenStreetMap contributors



Legend

Study area

Hourly Occupancy

- <=45%
- 45 -75%
- 75 - 85%
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Thursday 4pm
Mowbray Road
Stafford Road
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Wallace Street
Ward Street
Keary Street
Oakville Street
Eaton Street
High Street
Edinburgh Road
Cevu Avenue
Stewart Street
Selwyn Street
Muttama Road
Shepherd Road
Tindale Road
Carlos Road
Weedon Road
Smith Road
Godfrey Road
Zara Road
Sydney Street
Nardoo Road
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Burra Road
Hampden Lane
Abbott Road
McMillan Road
Hampden Road
Cleland Road
Barton Road
Olive Lane
Chelmsford Avenue
Richmond Avenue
Gore Hill Freeway
Walter Street
Small Street
Pendey Street
Flat Rock Drive
Sailors Bay Road
Pyalla Street
Legend
Study area
Hourly Occupancy
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Legend

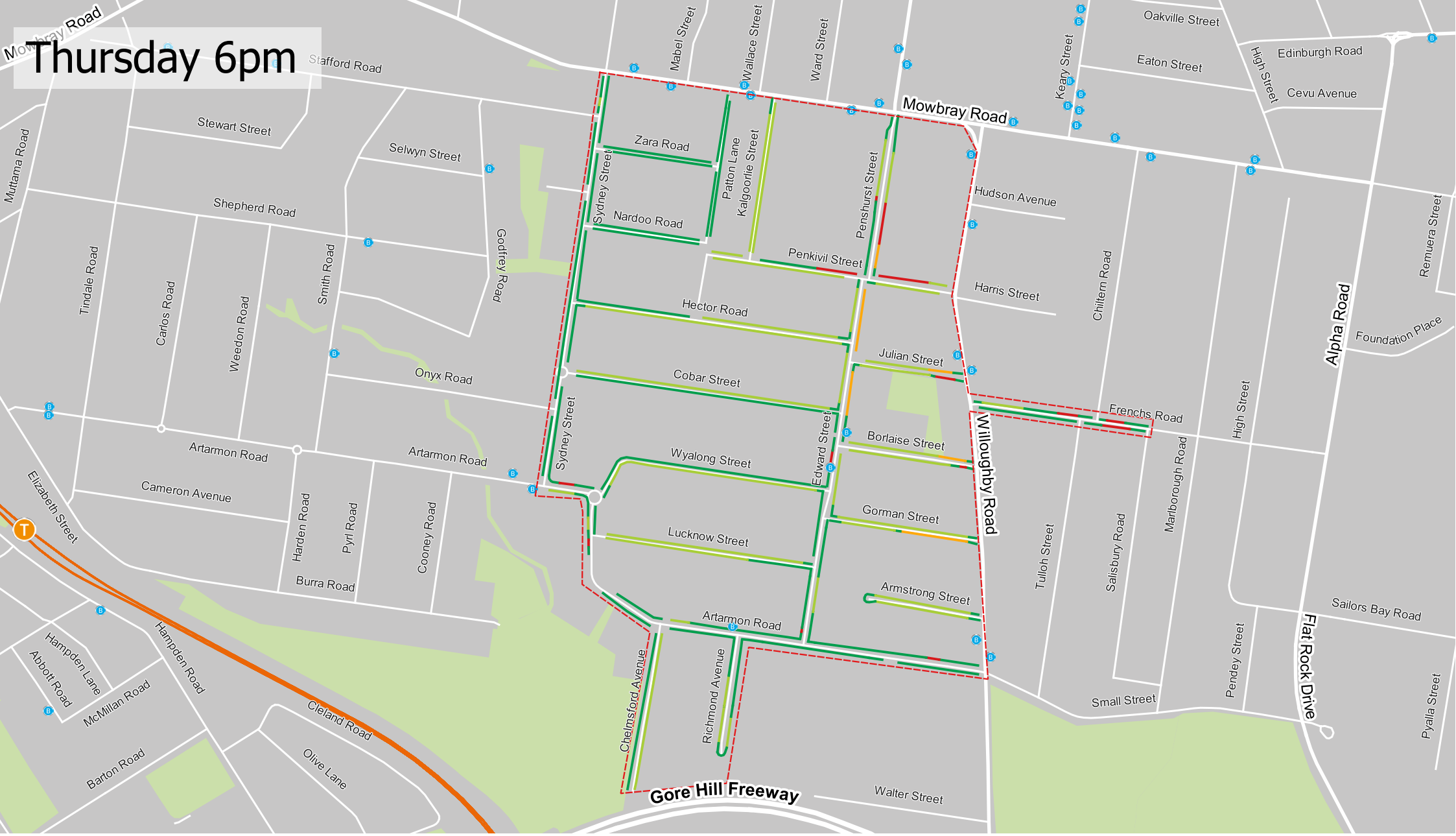
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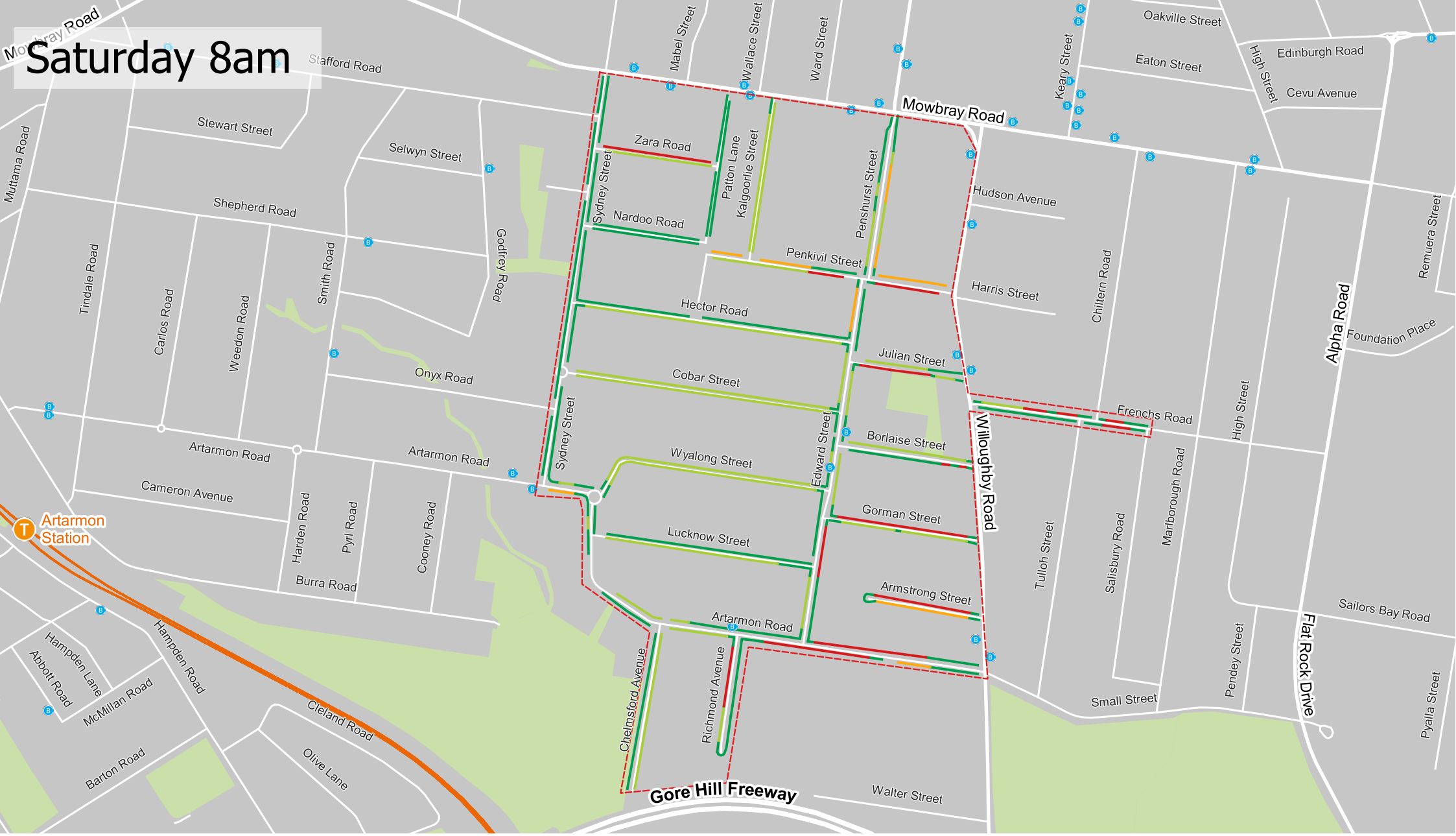
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Edinburgh Road
Cevu Avenue
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Tindale Road
Carlos Road
Weedon Road
Smith Road
Godfrey Road
Zara Road
Sydney Street
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Hudson Avenue
Penkivil Street
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Small Street
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Hampden Road
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Gore Hill Freeway
Walter Street
Legend
Study area
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Legend

Study area

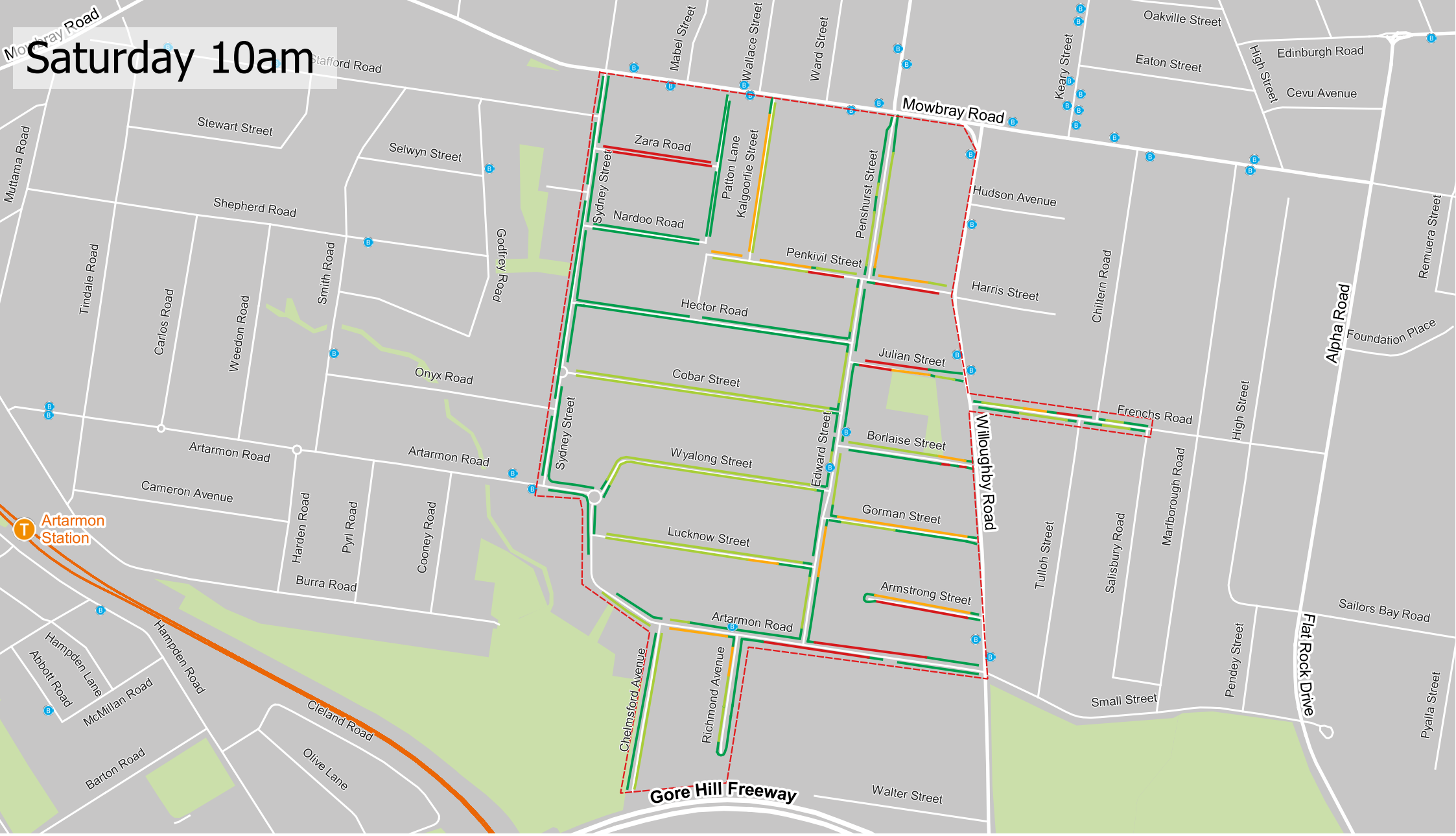
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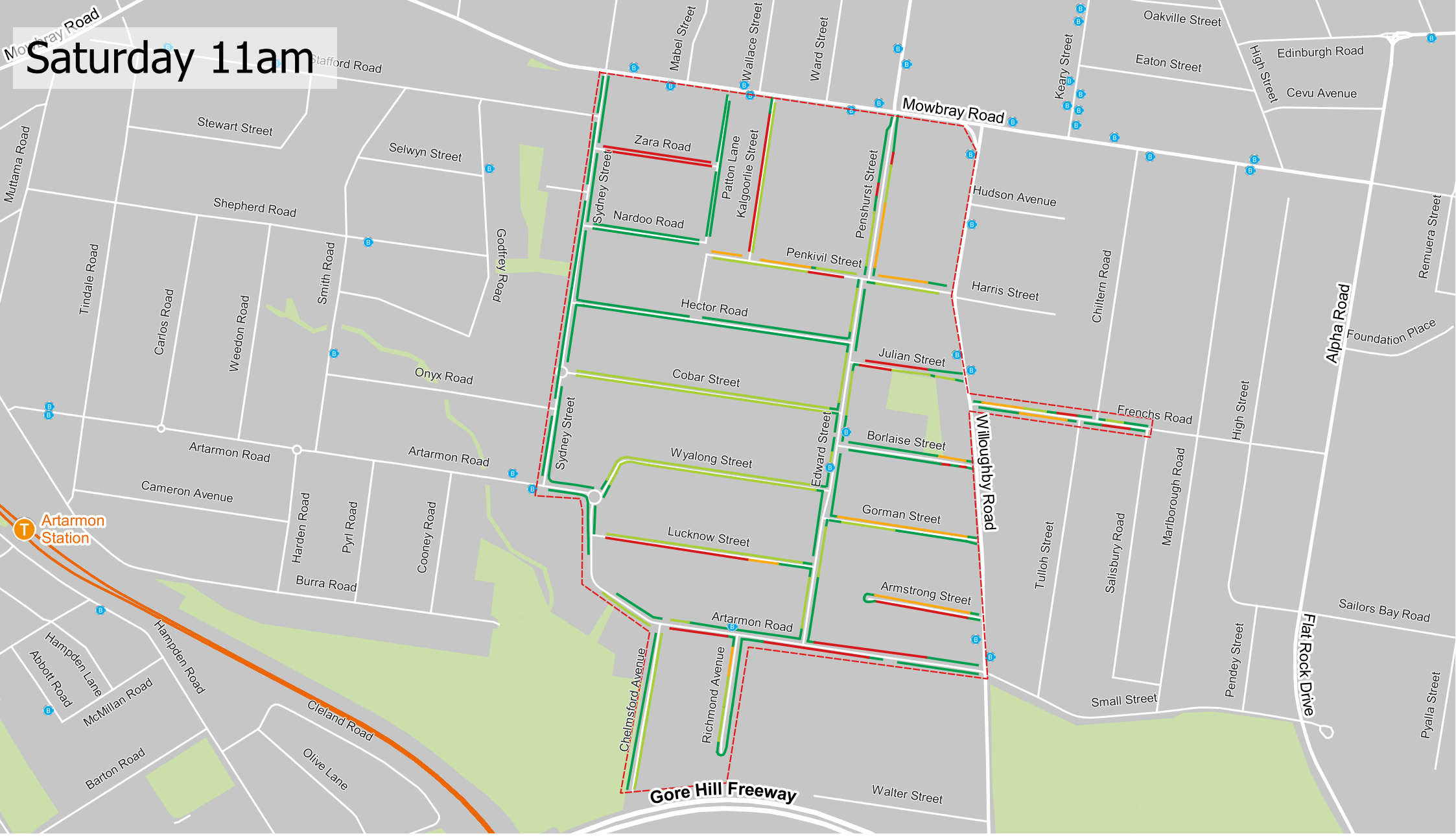
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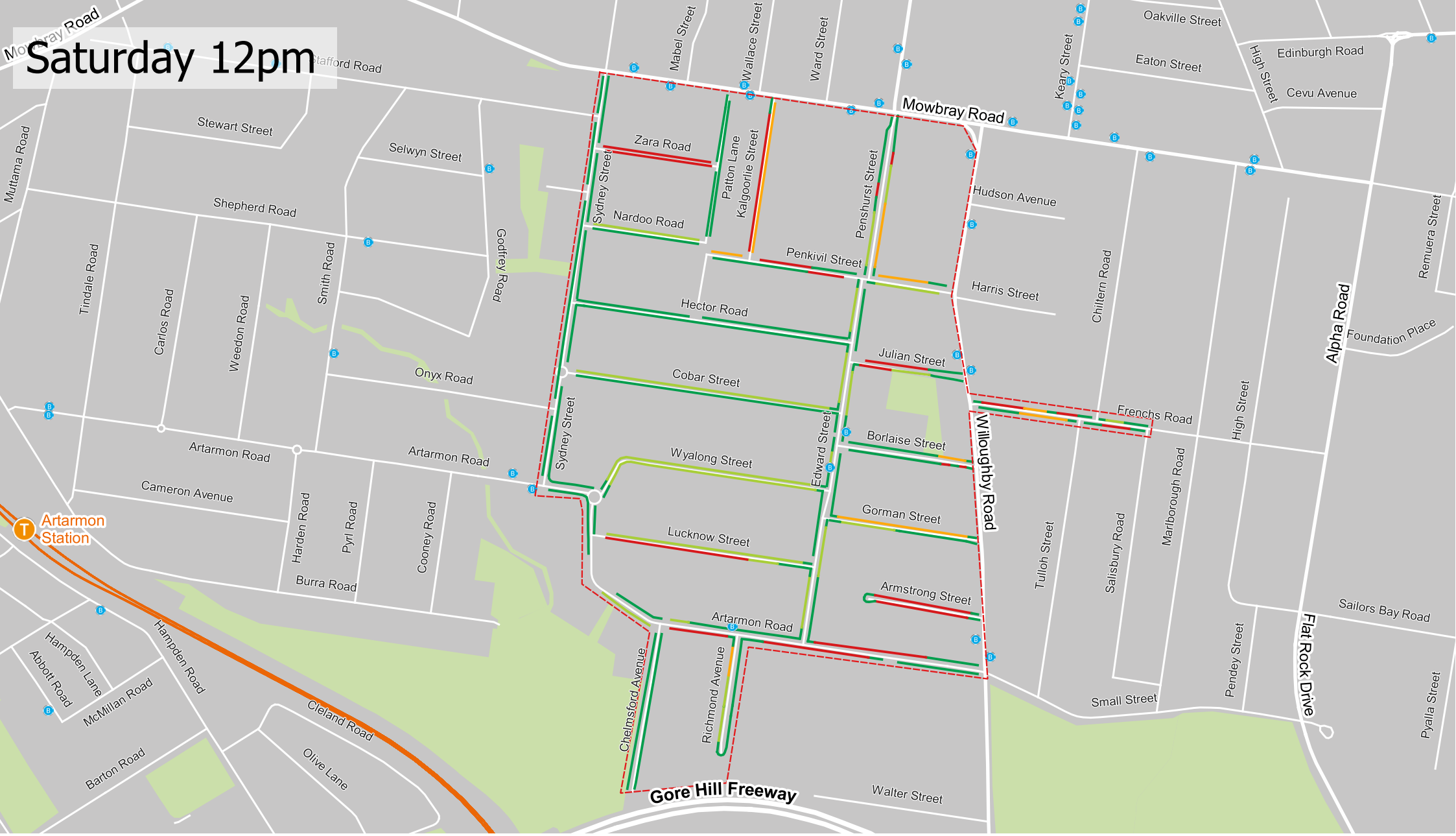
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Saturday 9am
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Shepherd Road
Onyx Road
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Cameron Avenue
Burra Road
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Olive Lane
Cleland Road
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McMillan Road
Artarmon Station
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Walter Street
Tulloh Street
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Marlborough Road
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Foundation Place
Remuera Street
Sailors Bay Road
Flat Rock Drive
Pendey Street
Small Street
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Study area
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Saturday 10am
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Armstrong Street
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Chelmsford Avenue
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Walter Street
Willoughby Road
Frenchs Road
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Marlborough Road
Salisbury Road
Tulloh Street
Sailors Bay Road
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Small Street
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Harden Road
Pyrl Road
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Legend
Study area
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OpenStreetMap contributors


Saturday 11am
Mowbray Road
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Burra Road
Barton Road
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Sailors Bay Road
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Study area
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© SCT Consulting,
OpenStreetMap contributors



Legend

Study area

Hourly Occupancy

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APPENDIX D

PARKING SURVEY DATA

NS TRAFFIC SURVEY
trafficsurvey.com.au

Parking Occupancy Survey

Date:	Tuesday, 8 February 2022
Location:	Willoughby
GPS:	-33.803158, 151.193735
Weather:	Fine
Customer:	JMT

Public Parking (1/0)	Map Ref	Street	Section	Side	Restriction	Clear Way	Capacity	Parking Occupancy										
								8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
0		Sydney St	Mowbray Rd To Zara Rd	E	No Stopping		8	0	0	0	0	0	0	0	0	0	0	0
1			Zara Rd To Nardoo Rd	E	Unrestricted		11	0	0	0	0	0	0	0	0	0	0	0
1			Nardoo Rd To Hector Rd	E	Unrestricted		9	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Hectror Rd To Cobar St	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		6	0	0	0	0	0	0	0	0	0	0	0
1			Cobar St To Artarmon Rd	E	Unrestricted		14	1	1	1	1	2	2	2	3	3	3	2
1			Artarmon Rd To Onyx Rd	W	Unrestricted		8	1	1	0	0	0	0	0	0	0	0	0
1			Onyx Rd To Marlow Rd	W	Unrestricted		26	0	2	2	1	0	0	0	0	0	0	0
1			Marlow Rd To Stafford Rd	W	Unrestricted		8	0	0	0	0	0	0	0	0	0	0	0
0			Stafford Rd To Mowbray Rd	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					P10		2	1	0	0	0	0	0	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
1		Patton Ln (N)	Mowbray Rd To End of Rd (Building No 45)	E	Unrestricted		44	3	2	1	1	1	2	2	3	3	4	4
1			Nardoo Rd To Zara Rd	W	Unrestricted		14	0	0	0	0	0	0	0	0	0	0	0
1			Zara Rd To Mowbray Rd	W	Unrestricted		13	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
1		Kalgoorlie St	Mowbray Rd To Penkivil St	E	Unrestricted		20	9	9	9	9	9	9	11	11	13	12	12
1			Penkivil St To Mowbray Rd	W	Unrestricted		19	6	7	7	7	7	11	11	5	3	3	11
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
0		Penshurst St	Mowbray Rd To Penkivil St	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0					No Parking		4	0	0	0	0	1	1	0	0	1	1	1
1					1P 8:30am-6:00pm Everyday		3	1	1	1	2	2	2	3	2	2	2	2
1					Unrestricted		6	4	5	5	5	5	5	6	6	6	4	2

1					1P 8:30am-6:00pm Mon-Fri		6	4	4	4	4	4	3	3	4	4	4	6
1					Unrestricted		5	5	5	3	3	4	3	3	4	4	4	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Penkivil St To Mowbray Rd	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri		8	5	4	4	3	3	4	4	4	5	4	4
1					Unrestricted		2	1	1	2	2	2	1	1	1	1	1	2
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					90° Angle Unrestricted Parking		1	1	1	1	1	1	1	1	1	1	1	1
1					1P 8:30am-6:00pm Mon-Fri		4	2	2	3	3	4	4	4	4	4	3	3
1					1P 8:30am-6:00pm Mon-Fri; 8:30-12:30pm Sat		18	4	6	6	6	8	15	15	15	16	17	17
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Edward St	Penkivil St To Julian St	E	Unrestricted		11	8	10	11	8	7	10	10	10	10	10	10
0			Julian St To Borlaise St	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	5	5	5	6	7	6	6	5	4	5	5
1					Bus Zone 3:00pm-4:00pm School Days		3	0	0	0	0	0	0	0	0	1	1	1
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1			Borlaise St To Gorman St	E	Unrestricted		10	6	6	4	4	2	2	3	3	3	3	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Gorman St To Artarmon Rd	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					2P 8:00am-8:00pm Mon-Sat		6	4	4	4	3	3	3	3	3	2	1	1
1					Unrestricted		6	5	5	4	4	4	4	3	3	2	3	3
1					2P 8:00am-8:00pm Mon-Sat		5	5	5	4	4	3	3	3	1	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Artarmon Rd To Lucknow St	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					2P 8:00am-2:00pm Mon-Fri, 8:00AM-8:00pm Sat		1	1	1	1	0	0	0	0	0	0	0	0
1					2P 8:00am-8:00pm Mon-Sat		8	6	5	4	4	4	5	5	5	2	2	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1			Lucknow St To Wyalong St	W	Unrestricted		9	7	7	6	6	6	6	6	3	3	3	2
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Wyalong St To Cobar St	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Bus Zone 8:15am-9:00pm, 3:00pm-3:45pm School Days		3	0	0	0	0	0	0	0	0	0	0	1
1					Unrestricted		2	0	2	2	2	2	2	2	2	2	2	2

0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		1	0	1	1	1	1	1	1	1	1	1	1
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
0			Cobar St To Hector Rd	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		11	2	3	3	4	4	4	6	6	6	6	6
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Hector Rd To Penkivil St	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	6	6	7	7	7	7	7	7	7	7	7
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Patton Ln (S)	Penkivil St To End of Rd (Until No Through Rd)	E	Unrestricted		0	0	0	0	0	0	0	0	0	0	0	0
1			End of Rd (From No Through Rd) To Penkivil St	W	Unrestricted		0	*1*	*1*	0	0	0	*1*	*1*	*1*	*1*	*1*	*1*
1		Chelmsford Ave	Artarmon Rd To End Of Rd (Building No 21)	E	Unrestricted		22	12	11	11	11	11	10	9	9	9	8	8
1			End of Rd To Artarmon Rd	W	Unrestricted		31	9	9	9	10	10	10	9	8	8	9	9
0		Richmond Ave	Artarmon Rd To End of Rd	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	8	8	8	8	9	8	5	4	0	0	0
0					No Parking		1	1	1	1	1	1	1	1	0	0	0	0
1					Unrestricted		21	8	8	8	7	7	7	6	3	2	2	2
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
0			End of Rd To Artarmon Rd	W	No Parking		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	6	7	7	7	7	4	4	5	5	5	5
1					2P 8:30am-5:30pm Mon-Fri		4	3	3	3	3	3	3	3	1	1	1	1
1					Unrestricted		5	4	3	3	3	3	2	0	0	1	1	1
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Zara Rd	Sydney St To Patton Ln	N	Unrestricted		16	7	5	4	7	7	7	7	7	7	7	8
1			Patton Ln To Syden St	S	Unrestricted		17	2	2	3	3	3	2	1	0	0	0	2
1		Nardoo Rd	Sydney St To Patton Ln	N	Unrestricted		13	4	4	4	5	5	3	3	3	3	3	4
1			Patton Ln To Syden St	S	Unrestricted		11	4	4	4	4	6	6	3	3	3	4	4
0		Hector Rd	Sydney St To Patton Ln	N	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		16	11	8	4	4	5	6	7	6	6	3	3
1			Patton Ln To Edward St	N	Unrestricted		20	5	5	6	6	10	10	10	10	10	12	13
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Sydney St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		32	15	15	15	14	14	14	13	12	12	12	13

0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1		Cobar St	Sydney St To Edward St	N	Unrestricted		21	15	15	15	15	16	14	14	14	13	14	14
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Sydney St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		31	18	18	13	13	14	13	12	12	12	16	17
0		Artarmon Rd	Sydeny St To Wyalong St	N	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		3	2	2	1	2	2	2	2	1	1	1	2
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Wyalong St To Lucknow St	E	No Stopping		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1			Lucknow St To Edward St	E N	Unrestricted		8	8	8	7	7	8	5	4	6	6	6	6
1					Bus Zone 8:00am-9:30pm, 2:30pm-4:00pm		2	0	1	1	1	1	1	1	1	2	2	2
1					Unrestricted		4	2	2	2	2	3	3	3	3	2	2	2
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	6	7	8	8	8	4	4	3	3	3	3
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Willoughby Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		26	11	14	14	13	12	10	9	6	6	6	8
1					Unrestricted	No Parking 8:00am-4:00pm Sat	3	2	2	2	2	2	1	1	1	1	1	1
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Richmond Ave	S	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0					No Parking		3	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		22	0	13	19	19	17	14	11	7	6	6	6	6	6	6	6
0					No Parking		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Richmond Ave To Chelmsford Ave	S	No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	8	9	9	9	9	9	9	9	7	7	7
1			Chelmsford Ave To End of Map (Sydney St)	S W S	Unrestricted		16	7	7	7	7	6	6	6	6	6	5	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1					Unrestricted		3	3	3	2	2	3	3	2	3	3	2	2
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					4P 8:30am-6:00pm Mon-Fri		5	2	2	2	3	3	3	2	2	2	2	2
0		Wyalong St	Artarmon Rd To Edward St	W N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		26	12	13	15	15	14	13	11	12	12	14	15
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Artarmon Rd	S E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		23	8	8	8	8	9	9	10	11	11	11	10
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1		Lucknow St	Artarmon Rd To Edward St	N	Unrestricted		25	15	15	15	15	16	13	11	13	13	11	11
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Artarmon Rd	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0					No Parking		5	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted	No Parking 8:30am-4:30pm Mon-Fri	5	0	0	0	0	0	0	0	1	1	1	1
1					Unrestricted		17	13	13	13	13	11	10	10	8	8	8	13
1		Penkivil St	Patton Ln To Kalgoorlie St	N	Unrestricted		5	2	2	1	1	1	1	2	2	1	2	2
1			Kalgoorlie St To Penshurst St	N	Unrestricted		13	4	4	4	4	3	4	4	3	3	4	4
1					Unrestricted	No Parking 6:00AM-12:00pm Tue-Fri	1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		7	6	6	6	6	6	6	5	5	5	6	6
1			Penshurst St To Willoughby Rd	N	Unrestricted		13	12	12	12	12	12	10	10	10	11	11	11
1					P5 8am-6pm Mon-Fri		5	0	0	0	0	0	1	1	1	2	3	4
1			Willoughby Rd To Edward St	S	Unrestricted		7	4	4	5	6	6	6	6	6	6	5	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1			Edward St To Patton Ln	S	Unrestricted		4	4	3	3	4	4	3	2	2	2	3	4
1					Unrestricted	No Parking 6:00am-12:00pm Mon-Thu	3	0	0	1	1	1	2	2	2	2	1	1
1					Unrestricted		18	10	11	11	12	13	12	12	12	9	9	9
1		Julian St	Edward St To Willoughby Rd	N	Unrestricted		9	6	8	9	9	9	9	9	9	9	9	9
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	0	1	3	3	3	3	3	4	4	3	3
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	0	1	1	3	3	3	3	3	4	2	2
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0

1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		6	0	1	2	3	3	3	4	4	2	3	4
1					Unrestricted		4	2	2	2	2	2	2	2	3	3	3	3
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Borlaise St	Edward St To Willoughby Rd	N	Unrestricted		13	10	12	12	10	10	10	10	10	10	10	10
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	2	5	5	3	3	5	5	5	4	3	3
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		1	1	1	1	1	1	1	1	1	1	1	1
0					No Parking		3	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		2	0	0	0	0	0	0	1	0	0	1	1
1					Unrestricted		14	9	9	9	9	9	9	9	8	7	7	7
0		Gorman St	Edward St To Willoughby Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		13	11	11	10	9	9	9	9	11	11	10	10
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		10	7	7	7	6	6	7	7	7	10	8	7
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		10	6	6	6	6	6	5	5	5	4	5	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0		Armstrong St	End of Rd To Willoughby Rd		No Parking		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		15	15	14	14	14	12	12	12	12	12	10	10
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To End of Rd		No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		15	11	11	10	10	11	11	10	10	10	8	8
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
	PUBLIC CAPACITY							**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**
	PUBLIC OCCUPANCIES							**457**	**488**	**482**	**482**	**490**	**476**	**459**	**439**	**424**	**420**	**445**
	PUBLIC VACANCIES							**577**	**546**	**552**	**552**	**544**	**558**	**575**	**595**	**610**	**614**	**589**
	PUBLIC % OCCUPANCIES							**44%**	**47%**	**47%**	**47%**	**47%**	**46%**	**44%**	**42%**	**41%**	**41%**	**43%**

not available for public parking

NS TRAFFIC SURVEY trafficsurvey.com.au

Parking Occupancy Survey

Date:	Thursday, 10 February 2022
Location:	Willoughby
GPS:	-33.803158, 151.193735
Weather:	Fine
Customer:	JMT

Public Parking (1/0)	Map Ref	Street	Section	Side	Restriction	Clear Way	Capacity	Parking Occupancy										
								8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
0		Sydney St	Mowbray Rd To Zara Rd	E	No Stopping		8	0	0	0	0	0	0	0	0	0	0	0
1			Zara Rd To Nardoo Rd	E	Unrestricted		11	0	0	0	0	0	0	0	0	0	0	0
1			Nardoo Rd To Hector Rd	E	Unrestricted		9	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Hectror Rd To Cobar St	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		6	0	0	0	0	0	0	0	0	0	0	0
1			Cobar St To Artarmon Rd	E	Unrestricted		14	1	1	1	3	3	3	3	3	3	4	4
1			Artarmon Rd To Onyx Rd	W	Unrestricted		8	0	0	0	0	0	0	0	0	0	0	0
1			Onyx Rd To Marlow Rd	W	Unrestricted		26	0	0	0	0	0	0	0	0	0	0	0
1			Marlow Rd To Stafford Rd	W	Unrestricted		8	0	0	0	0	0	0	0	0	0	0	0
0			Stafford Rd To Mowbray Rd	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					P10		2	1	1	0	0	0	0	0	0	0	0	1
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
1		Patton Ln (N)	Mowbray Rd To End of Rd (Building No 45)	E	Unrestricted		44	3	2	2	2	2	2	2	2	2	2	3
1			Nardoo Rd To Zara Rd	W	Unrestricted		14	0	0	0	0	0	0	0	0	0	0	0
1			Zara Rd To Mowbray Rd	W	Unrestricted		13	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
1		Kalgoorlie St	Mowbray Rd To Penkivil St	E	Unrestricted		20	10	10	10	9	9	11	11	11	11	11	11
1			Penkivil St To Mowbray Rd	W	Unrestricted		19	7	7	7	7	8	8	9	9	9	9	9
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
0		Penshurst St	Mowbray Rd To Penkivil St	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0					No Parking		4	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Everyday		3	2	2	2	2	2	3	3	3	2	2	2
1					Unrestricted		6	6	5	5	4	4	4	5	5	5	4	4

1					1P 8:30am-6:00pm Mon-Fri		6	3	4	4	4	3	3	3	3	5	5	6
1					Unrestricted		5	5	5	5	5	5	5	5	5	5	4	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Penkivil St To Mowbray Rd	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri		8	2	2	2	2	3	3	3	3	3	3	3
1					Unrestricted		2	1	1	1	1	1	1	1	1	1	1	1
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					90° Angle Unrestricted Parking		1	1	1	1	1	1	1	1	1	1	1	1
1					1P 8:30am-6:00pm Mon-Fri		4	2	2	2	3	3	3	3	3	3	3	3
1					1P 8:30am-6:00pm Mon-Fri; 8:30-12:30pm Sat		18	7	7	9	10	11	14	15	11	10	12	13
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Edward St	Penkivil St To Julian St	E	Unrestricted		11	9	9	9	8	8	8	9	9	9	9	9
0			Julian St To Borlaise St	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	6	6	5	5	6	5	5	6	6	6	7
1					Bus Zone 3:00pm-4:00pm School Days		3	0	0	0	0	0	0	0	0	1	1	1
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1			Borlaise St To Gorman St	E	Unrestricted		10	8	7	7	7	6	8	8	8	8	7	6
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Gorman St To Artarmon Rd	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					2P 8:00am-8:00pm Mon-Sat		6	4	3	3	3	3	3	3	2	2	1	1
1					Unrestricted		6	5	5	5	5	5	5	4	4	3	3	3
1					2P 8:00am-8:00pm Mon-Sat		5	5	4	3	5	5	4	2	2	2	1	1
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Artarmon Rd To Lucknow St	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					2P 8:00am-2:00pm Mon-Fri, 8:00AM-8:00pm Sat		1	1	1	1	1	1	1	1	1	1	1	1
1					2P 8:00am-8:00pm Mon-Sat		8	6	6	5	5	5	5	5	5	4	2	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1			Lucknow St To Wyalong St	W	Unrestricted		9	8	7	7	7	8	8	7	5	5	4	3
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Wyalong St To Cobar St	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Bus Zone 8:15am-9:00pm, 3:00pm-3:45pm School Days		3	0	0	0	0	0	0	0	0	0	1	1
1					Unrestricted		2	1	1	1	1	2	2	2	2	2	2	2

0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		1	1	1	1	1	1	1	1	1	1	1	1
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
0			Cobar St To Hector Rd	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		11	4	6	6	6	6	6	7	7	7	7	7
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Hector Rd To Penkivil St	W	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	7	7	7	7	6	6	6	6	6	6	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Patton Ln (S)	Penkivil St To End of Rd (Until No Through Rd)	E	Unrestricted		0	0	0	0	0	0	0	0	0	0	0	0
1			End of Rd (From No Through Rd) To Penkivil St	W	Unrestricted		0	*1*	*1*	0	0	0	0	0	0	0	0	0
1		Chelmsford Ave	Artarmon Rd To End Of Rd (Building No 21)	E	Unrestricted		22	14	14	14	14	14	15	15	13	13	12	11
1			End of Rd To Artarmon Rd	W	Unrestricted		31	9	8	8	8	7	7	7	7	7	7	7
0		Richmond Ave	Artarmon Rd To End of Rd	E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	8	8	8	8	8	8	8	8	1	1	1
0					No Parking		1	1	1	1	1	1	1	1	1	0	0	0
1					Unrestricted		21	10	10	10	10	11	11	9	11	11	11	11
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
0			End of Rd To Artarmon Rd	W	No Parking		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	8	8	8	8	8	8	8	8	7	7	5
1					2P 8:30am-5:30pm Mon-Fri		4	3	3	2	2	3	4	4	3	2	2	2
1					Unrestricted		5	4	4	4	4	4	4	5	5	3	3	2
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Zara Rd	Sydney St To Patton Ln	N	Unrestricted		16	4	4	6	6	4	4	7	7	6	6	5
1			Patton Ln To Syden St	S	Unrestricted		17	4	4	4	4	7	7	7	7	5	5	5
1		Nardoo Rd	Sydney St To Patton Ln	N	Unrestricted		13	7	7	7	7	7	6	6	5	5	5	5
1			Patton Ln To Syden St	S	Unrestricted		11	3	3	3	4	5	5	4	4	4	4	4
0		Hector Rd	Sydney St To Patton Ln	N	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		16	6	6	4	5	6	7	8	8	7	6	5
1			Patton Ln To Edward St	N	Unrestricted		20	15	15	16	13	13	13	13	13	13	12	12
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Sydney St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		32	16	12	12	10	7	6	5	5	10	13	16

0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1		Cobar St	Sydney St To Edward St	N	Unrestricted		21	17	17	17	17	17	17	20	15	15	14	14
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Sydney St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		31	12	12	11	13	13	12	12	12	12	13	14
0		Artarmon Rd	Sydeny St To Wyalong St	N	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		3	2	2	2	3	3	2	2	3	3	3	3
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Wyalong St To Lucknow St	E	No Stopping		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1			Lucknow St To Edward St	E N	Unrestricted		8	6	6	6	6	6	6	6	6	5	5	4
1					Bus Zone 8:00am-9:30pm, 2:30pm-4:00pm		2	0	0	1	0	0	0	0	0	0	0	1
1					Unrestricted		4	3	3	3	3	2	3	3	2	2	2	1
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	8	9	9	8	8	8	8	4	4	4	3
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Willoughby Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		26	20	21	21	21	22	17	17	16	11	7	6
1					Unrestricted	No Parking 8:00am-4:00pm Sat	3	2	2	2	2	2	2	2	2	2	2	3
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Richmond Ave	S	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0					No Parking		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		5	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		3	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0
1					Unrestricted		22	22	22	22	22	22	22	22	22	20	17	5
0					No Parking		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Richmond Ave To Chelmsford Ave	S	No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		9	6	6	6	7	8	8	8	7	6	5	4
1			Chelmsford Ave To End of Map (Sydney St)	S W S	Unrestricted		16	10	9	8	8	9	9	8	8	8	8	6
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		1	0	0	1	1	1	1	1	1	1	1	1
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1					Unrestricted		3	3	3	3	3	3	3	2	3	3	3	2
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					4P 8:30am-6:00pm Mon-Fri		5	2	2	3	3	4	3	2	2	3	3	3
0		Wyalong St	Artarmon Rd To Edward St	W N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		26	12	12	9	10	11	11	9	9	9	9	10
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Artarmon Rd	S E	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		23	11	11	16	14	14	14	17	16	16	16	16
0					No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1		Lucknow St	Artarmon Rd To Edward St	N	Unrestricted		25	20	20	22	22	21	15	13	15	15	15	15
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Edward St To Artarmon Rd	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0					No Parking		5	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted	No Parking 8:30am-4:30pm Mon-Fri	5	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		17	15	15	17	13	12	11	10	10	10	10	10
1		Penkivil St	Patton Ln To Kalgoorlie St	N	Unrestricted		5	3	3	3	3	3	3	3	3	3	3	3
1			Kalgoorlie St To Penshurst St	N	Unrestricted		13	3	3	3	3	3	3	4	4	4	4	5
1					Unrestricted	No Parking 6:00AM-12:00pm Tue-Fri	1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		7	4	5	6	7	7	7	7	6	5	6	6
1			Penshurst St To Willoughby Rd	N	Unrestricted		13	13	12	12	12	12	12	11	11	11	12	12
1					P5 8am-6pm Mon-Fri		5	0	0	0	0	1	1	0	0	1	3	3
1			Willoughby Rd To Edward St	S	Unrestricted		7	6	5	5	5	5	5	5	5	4	4	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1			Edward St To Patton Ln	S	Unrestricted		4	3	2	2	2	3	3	1	1	1	2	2
1					Unrestricted	No Parking 6:00am-12:00pm Mon-Thu	3	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		18	13	13	13	12	8	10	10	10	11	9	9
1		Julian St	Edward St To Willoughby Rd	N	Unrestricted		9	7	8	8	8	8	8	7	8	8	6	6
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	0	0	2	2	2	3	3	3	4	4	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	1	1	4	4	2	4	4	4	4	5	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0

1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		6	0	0	4	2	2	2	4	4	4	4	3
1					Unrestricted		4	1	1	2	3	3	2	1	1	2	2	2
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1		Borlaise St	Edward St To Willoughby Rd	N	Unrestricted		13	13	13	13	12	10	10	11	11	11	9	9
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	4	4	2	4	4	3	3	4	4	4	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		1	1	1	1	1	1	1	1	1	1	1	1
0					No Parking		3	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		2	1	0	0	0	1	1	0	0	0	0	1
1					Unrestricted		14	10	9	8	8	9	9	11	11	11	11	10
0		Gorman St	Edward St To Willoughby Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		13	13	13	13	13	13	12	12	10	10	10	8
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		10	9	9	10	9	8	8	9	9	9	8	8
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		10	6	6	7	7	8	8	8	8	8	5	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0		Armstrong St	End of Rd To Willoughby Rd		No Parking		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		15	13	13	13	13	14	14	14	13	11	11	10
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0
0			Willoughby Rd To End of Rd		No Stopping		2	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		15	12	13	13	13	11	11	13	13	10	10	10
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0
	PUBLIC CAPACITY							**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**	**1034**
	PUBLIC OCCUPANCIES							**535**	**526**	**540**	**536**	**537**	**532**	**534**	**515**	**493**	**477**	**455**
	PUBLIC VACANCIES							**499**	**508**	**494**	**498**	**497**	**502**	**500**	**519**	**541**	**557**	**579**
	PUBLIC % OCCUPANCIES							**52%**	**51%**	**52%**	**52%**	**52%**	**51%**	**52%**	**50%**	**48%**	**46%**	**44%**

not available for public parking

NS TRAFFIC SURVEY trafficsurvey.com.au

Parking Occupancy Survey

Date:	Saturday, 5 February 2022
Location:	Willoughby
GPS:	-33.803158, 151.193735
Weather:	Fine
Customer:	JMT

Public Parking (1/0)	Map Ref	Street	Section	Side	Restriction	Clear Way	Capacity	Parking Occupancy				
								8:00	9:00	10:00	11:00	12:00
0		Sydney St	Mowbray Rd To Zara Rd	E	No Stopping		8	0	0	0	0	0
1			Zara Rd To Nardoo Rd	E	Unrestricted		11	0	0	0	0	0
1			Nardoo Rd To Hector Rd	E	Unrestricted		9	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0
0			Hectror Rd To Cobar St	E	No Stopping		1	0	0	0	0	0
1					Unrestricted		6	0	0	0	0	0
1			Cobar St To Artarmon Rd	E	Unrestricted		14	3	3	3	3	4
1			Artarmon Rd To Onyx Rd	W	Unrestricted		8	0	0	0	0	0
1			Onyx Rd To Marlow Rd	W	Unrestricted		26	0	0	0	0	0
1			Marlow Rd To Stafford Rd	W	Unrestricted		8	0	0	0	0	0
0			Stafford Rd To Mowbray Rd	W	No Stopping		1	0	0	0	0	0
1					P10		2	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0
1		Patton Ln (N)	Mowbray Rd To End of Rd (Building No 45)	E	Unrestricted		44	4	4	4	4	4
1			Nardoo Rd To Zara Rd	W	Unrestricted		14	0	0	0	0	0
1			Zara Rd To Mowbray Rd	W	Unrestricted		13	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0
1		Kalgoorlie St	Mowbray Rd To Penkivil St	E	Unrestricted		20	15	14	14	14	17
1			Penkivil St To Mowbray Rd	W	Unrestricted		19	13	14	15	18	18

0					No Stopping		3	0	0	0	0	0
0		Penshurst St	Mowbray Rd To Penkivil St	E	No Stopping		1	0	0	0	0	0
0					No Parking		4	0	0	0	0	0
1					1P 8:30am-6:00pm Everyday		3	2	2	2	3	3
1					Unrestricted		6	5	5	4	4	4
1					1P 8:30am-6:00pm Mon-Fri		6	4	3	3	5	5
1					Unrestricted		5	4	4	4	4	4
0					No Stopping		1	0	0	0	0	0
0			Penkivil St To Mowbray Rd	W	No Stopping		1	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri		8	6	6	5	5	4
1					Unrestricted		2	2	2	2	2	2
0					No Stopping		1	0	0	0	0	0
1					90° Angle Unrestricted Parking		1	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri		4	3	3	3	4	4
1					1P 8:30am-6:00pm Mon-Fri; 8:30-12:30pm Sat		18	5	5	4	5	6
0					No Parking		1	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0
1		Edward St	Penkivil St To Julian St	E	Unrestricted		11	4	4	4	4	4
0			Julian St To Borlaise St	E	No Stopping		1	0	0	0	0	0
1					Unrestricted		9	5	4	4	5	5
1					Bus Zone 3:00pm-4:00pm School Days		3	1	1	1	1	1
0					No Stopping		1	0	0	0	0	0
1			Borlaise St To Gorman St	E	Unrestricted		10	7	6	6	4	4
0					No Stopping		1	0	0	0	0	0
0			Gorman St To Artarmon Rd	E	No Stopping		1	0	0	0	0	0
1					2P 8:00am-8:00pm Mon-Sat		6	6	6	5	4	4
1					Unrestricted		6	0	0	0	0	0
1					2P 8:00am-8:00pm Mon-Sat		5	0	0	0	0	0

0					No Stopping		1	0	0	0	0	0
0			Artarmon Rd To Lucknow St	W	No Stopping		1	0	0	0	0	0
1					2P 8:00am-2:00pm Mon-Fri, 8:00AM-8:00pm Sat		1	0	0	0	0	0
1					2P 8:00am-8:00pm Mon-Sat		8	6	5	5	6	6
0					No Stopping		1	0	0	0	0	0
1			Lucknow St To Wyalong St	W	Unrestricted		9	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0
0			Wyalong St To Cobar St	W	No Stopping		1	0	0	0	0	0
1					Bus Zone 8:15am-9:00pm, 3:00pm-3:45pm School Days		3	1	1	1	1	1
1					Unrestricted		2	1	1	1	1	1
0					No Stopping		3	0	0	0	0	0
1					Unrestricted		1	0	0	0	0	0
0					No Stopping		2	0	0	0	0	0
0			Cobar St To Hector Rd	W	No Stopping		1	0	0	0	0	0
1					Unrestricted		11	8	7	7	6	6
0					No Stopping		1	0	0	0	0	0
0			Hector Rd To Penkivil St	W	No Stopping		1	0	0	0	0	0
1					Unrestricted		9	7	6	6	6	5
0					No Stopping		1	0	0	0	0	0
1		Patton Ln (S)	Penkivil St To End of Rd (Until No Through Rd)	E	Unrestricted		0	0	0	0	0	0
1			End of Rd (From No Through Rd) To Penkivil St	W	Unrestricted		0	0	0	0	0	0
1		Chelmsford Ave	Artarmon Rd To End Of Rd (Building No 21)	E	Unrestricted		22	12	12	13	12	10
1			End of Rd To Artarmon Rd	W	Unrestricted		31	10	10	10	10	10
0		Richmond Ave	Artarmon Rd To End of Rd	E	No Stopping		1	0	0	0	0	0
1					Unrestricted		9	4	4	4	4	4
0					No Parking		1	0	0	0	0	0
1					Unrestricted		12	3	3	2	3	3
0					No Parking		1	0	0	0	0	0

0			End of Rd To Artarmon Rd	W	No Parking		2	0	0	0	0	0
1					Unrestricted		9	6	5	5	5	5
1					2P 8:30am-5:30pm Mon-Fri		4	4	4	3	3	3
1					Unrestricted		5	5	5	4	4	4
0					No Stopping		1	0	0	0	0	0
1		Zara Rd	Sydney St To Patton Ln	N	Unrestricted		16	15	14	14	15	16
1			Patton Ln To Syden St	S	Unrestricted		17	12	13	15	15	17
1		Nardoo Rd	Sydney St To Patton Ln	N	Unrestricted		13	5	4	4	5	6
1			Patton Ln To Syden St	S	Unrestricted		11	4	4	4	4	4
0		Hector Rd	Sydney St To Patton Ln	N	No Stopping		2	0	0	0	0	0
1					Unrestricted		16	6	6	7	6	6
1			Patton Ln To Edward St	N	Unrestricted		20	6	6	6	6	6
0					No Stopping		1	0	0	0	0	0
0			Edward St To Sydney St	S	No Stopping		1	0	0	0	0	0
1					Unrestricted		32	15	14	14	14	13
0					No Stopping		1	0	0	0	0	0
1		Cobar St	Sydney St To Edward St	N	Unrestricted		21	14	14	13	11	10
0					No Stopping		1	0	0	0	0	0
0			Edward St To Sydney St	S	No Stopping		1	0	0	0	0	0
1					Unrestricted		31	17	17	18	18	14
0		Artarmon Rd	Sydeny St To Wyalong St	N	No Stopping		2	0	0	0	0	0
1					Unrestricted		3	2	1	1	1	1
0					No Stopping		3	0	0	0	0	0
0			Wyalong St To Lucknow St	E	No Stopping		5	0	0	0	0	0
1			Lucknow St To Edward St	E N	Unrestricted		8	8	7	7	6	6
1					Bus Zone 8:00am-9:30pm, 2:30pm-4:00pm		2	1	1	1	1	1
1					Unrestricted		4	1	0	0	0	0
0					No Stopping		3	0	0	0	0	0

1					Unrestricted		9	4	3	3	3	3
0					No Stopping		2	0	0	0	0	0
0			Edward St To Willoughby Rd	N	No Stopping		1	0	0	0	0	0
1					Unrestricted		26	26	25	24	23	23
1					Unrestricted	No Parking 8:00am-4:00pm Sat	3	0	0	0	0	0
0					No Stopping		4	0	0	0	0	0
0			Willoughby Rd To Richmond Ave	S	No Stopping		2	0	0	0	0	0
0					No Parking		3	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0
1					Unrestricted		5	4	2	0	0	0
0					No Stopping		3	1	0	0	0	0
1					Unrestricted		22	21	21	21	21	21
0					No Parking		3	0	0	0	0	0
0					No Stopping		1	0	0	0	0	0
0			Richmond Ave To Chelmsford Ave	S	No Stopping		3	0	0	0	0	0
1					Unrestricted		9	6	6	7	8	8
1			Chelmsford Ave To End of Map (Sydney St)	S W S	Unrestricted		16	4	6	10	10	10
0					No Stopping		1	0	0	0	0	0
1					Unrestricted		1	0	0	0	0	0
0					No Parking		1	0	0	0	0	0
1					Unrestricted		3	2	2	1	1	1
0					No Stopping		4	0	0	0	0	0
0					No Stopping		2	0	0	0	0	0
1					4P 8:30am-6:00pm Mon-Fri		5	4	2	2	2	2
0		Wyalong St	Artarmon Rd To Edward St	W N	No Stopping		1	0	0	0	0	0
1					Unrestricted		26	15	13	13	14	14
0					No Stopping		1	0	0	0	0	0
0			Edward St To Artarmon Rd	S E	No Stopping		1	0	0	0	0	0

1					Unrestricted		23	11	11	11	11	12
0					No Stopping		2	0	0	0	0	0
1		Lucknow St	Artarmon Rd To Edward St	N	Unrestricted		25	10	13	13	14	15
0					No Stopping		1	0	0	0	0	0
0			Edward St To Artarmon Rd	S	No Stopping		1	0	0	0	0	0
0					No Parking		5	0	0	0	0	0
1					Unrestricted	No Parking 8:30am-4:30pm Mon-Fri	5	3	4	4	4	3
1					Unrestricted		17	10	12	12	15	15
1		Penkivil St	Patton Ln To Kalgoorlie St	N	Unrestricted		5	4	4	4	4	4
1			Kalgoorlie St To Penshurst St	N	Unrestricted		13	10	11	11	11	13
1					Unrestricted	No Parking 6:00AM-12:00pm Tue-Fri	1	0	0	0	0	0
1					Unrestricted		7	0	1	4	4	3
1			Penshurst St To Willoughby Rd	N	Unrestricted		13	10	10	10	10	10
1					P5 8am-6pm Mon-Fri		5	4	3	3	2	2
1			Willoughby Rd To Edward St	S	Unrestricted		7	6	6	6	5	5
0					No Stopping		1	0	0	0	0	0
1			Edward St To Patton Ln	S	Unrestricted		4	4	4	4	4	4
1					Unrestricted	No Parking 6:00am-12:00pm Mon-Thu	3	0	0	1	1	1
1					Unrestricted		18	10	11	11	11	8
1		Julian St	Edward St To Willoughby Rd	N	Unrestricted		9	6	6	8	8	9
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	2	2	2	2	2
0					No Stopping		1	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		1	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	3	3	3	3	2
0					No Stopping		1	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		6	6	6	5	4	4
1					Unrestricted		4	4	4	4	4	4
0					No Stopping		1	0	0	0	0	0

1		Borlaise St	Edward St To Willoughby Rd	N	Unrestricted		13	8	7	6	5	5
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		5	3	3	4	4	4
0					No Stopping		1	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		1	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		1	1	1	1	1	1
0					No Parking		3	0	0	0	0	0
1					1P 8:30am-6:00pm Mon-Fri, 8:30am-12:30pm Sat		2	2	2	2	2	2
1					Unrestricted		14	5	5	5	5	5
0		Gorman St	Edward St To Willoughby Rd	N	No Stopping		1	0	0	0	0	0
1					Unrestricted		13	12	12	11	11	10
0					No Stopping		1	0	0	0	0	0
0			Willoughby Rd To Edward St	S	No Stopping		2	0	0	0	0	0
1					Unrestricted		10	5	4	4	4	4
0					No Parking		1	0	0	0	0	0
1					Unrestricted		10	6	7	7	7	6
0					No Stopping		1	0	0	0	0	0
0		Armstrong St	End of Rd To Willoughby Rd		No Parking		2	0	0	0	0	0
1					Unrestricted		15	13	12	12	12	13
0					No Stopping		1	0	0	0	0	0
0			Willoughby Rd To End of Rd		No Stopping		2	0	0	0	0	0
1					Unrestricted		15	12	12	13	14	14
0					No Parking		1	0	0	0	0	0
	PUBLIC CAPACITY							**1025**	**1025**	**1025**	**1025**	**1025**
	PUBLIC OCCUPANCIES							**518**	**506**	**510**	**516**	**513**
	PUBLIC VACANCIES							**507**	**519**	**515**	**509**	**512**
	PUBLIC % OCCUPANCIES							**51%**	**49%**	**50%**	**50%**	**50%**

not available for public parking

TRANS TRAFFIC SURVEY
trafficsurvey.com.au

Parking Occupancy Survey

Date:	Tuesday, 10 October 2023
Location:	Frenchs Rd, Willoughby
GPS:	-33.807317, 151.200972
Weather:	Fine
Customer:	SCT

Public Parking (1/0)	Map Ref	Street	Section	Side	Restriction	Clear Way	Capacity	Parking Occupancy													
								6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
0		Frenchs St	Willoughby Rd to Chitten Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Mail Zone		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6pm Mon-Fri, 8:30am-12:30pm Sat		13	1	5	8	3	9	10	11	10	11	11	11	8	9	7	7
1					Unrestricted		6	4	5	5	5	4	5	5	4	5	5	5	6	6	6	5
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		5	5	4	5	5	5	5	4	5	5	5	5	5	4	5	5
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Chitten Rd to Opp. Salisbury Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		3	2	2	3	3	3	3	2	3	3	3	3	3	3	3	3
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Salisbury Rd to Tulloh St	S	No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		7	3	3	6	6	6	6	6	6	6	6	6	6	4	4	6
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Tulloh St to Willoughby Rd	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6pm Mon-Fri, 8:30am-12:30pm Sat		12	5	6	5	5	11	12	11	12	11	11	7	6	8	7	9
1					Taxi Zone		5	3	0	2	0	1	1	0	1	0	1	0	0	1	1	1
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PUBLIC CAPACITY							**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**
	PUBLIC OCCUPANCIES							**23**	**25**	**34**	**27**	**39**	**42**	**39**	**41**	**41**	**42**	**37**	**34**	**35**	**33**	**36**
	PUBLIC VACANCIES							**29**	**27**	**18**	**25**	**13**	**10**	**13**	**11**	**11**	**10**	**15**	**18**	**17**	**19**	**16**
	PUBLIC % OCCUPANCIES							**44%**	**48%**	**65%**	**52%**	**75%**	**81%**	**75%**	**79%**	**79%**	**81%**	**71%**	**65%**	**67%**	**63%**	**69%**

not available for public parking

TRANS TRAFFIC SURVEY
trafficsurvey.com.au

Parking Occupancy Survey

Date:	Thursday, 12 October 2023
Location:	Frenchs Rd, Willoughby
GPS:	-33.807317, 151.200972
Weather:	Fine
Customer:	SCT

Public Parking (1/0)	Map Ref	Street	Section	Side	Restriction	Clear Way	Capacity	Parking Occupancy													
								6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
0		Frenchs St	Willoughby Rd to Chitten Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Mail Zone		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6pm Mon-Fri, 8:30am-12:30pm Sat		13	1	6	3	5	8	12	10	9	9	9	10	6	7	9	6
1					Unrestricted		6	6	6	6	6	6	6	6	5	6	6	3	3	0	6	6
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		5	5	5	5	5	5	5	5	5	4	5	5	5	5	4	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Chitten Rd to Opp. Salisbury Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Salisbury Rd to Tulloh St	S	No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		7	4	4	6	6	6	6	6	6	6	6	5	5	6	5	6
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Tulloh St to Willoughby Rd	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6pm Mon-Fri, 8:30am-12:30pm Sat		12	3	7	4	6	9	8	9	9	7	5	6	4	5	3	2
1					Taxi Zone		5	0	2	0	0	2	2	2	1	0	1	0	0	0	0	0
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PUBLIC CAPACITY							**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**
	PUBLIC OCCUPANCIES							**22**	**33**	**27**	**31**	**39**	**42**	**41**	**38**	**35**	**35**	**32**	**25**	**26**	**30**	**27**
	PUBLIC VACANCIES							**30**	**19**	**25**	**21**	**13**	**10**	**11**	**14**	**17**	**17**	**20**	**27**	**26**	**22**	**25**
	PUBLIC % OCCUPANCIES							**42%**	**63%**	**52%**	**60%**	**75%**	**81%**	**79%**	**73%**	**67%**	**67%**	**62%**	**48%**	**50%**	**58%**	**52%**

not available for public parking

TRANS TRAFFIC SURVEY
trafficsurvey.com.au

Parking Occupancy Survey

Date:	Saturday, 14 October 2023
Location:	Frenchs Rd, Willoughby
GPS:	-33.807317, 151.200972
Weather:	Fine
Customer:	SCT

Public Parking (1/0)	Map Ref	Street	Section	Side	Restriction	Clear Way	Capacity	Parking Occupancy													
								6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
0		Frenchs St	Willoughby Rd to Chitten Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Mail Zone		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6pm Mon-Fri, 8:30am-12:30pm Sat		13	3	2	6	7	8	10	12	8	7	8	8	8	7	9	10
1					Unrestricted		6	5	6	6	6	5	4	5	5	6	6	6	5	6	6	5
0					No Parking		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		5	5	5	5	4	5	5	5	5	5	4	5	5	4	5	4
0					No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Chitten Rd to Opp. Salisbury Rd	N	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		3	2	2	3	2	2	2	2	2	3	2	3	3	1	3	3
0					No Stopping		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Salisbury Rd to Tulloh St	S	No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					Unrestricted		7	5	5	6	5	5	6	6	5	5	6	5	5	6	7	7
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0			Tulloh St to Willoughby Rd	S	No Stopping		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1					1P 8:30am-6pm Mon-Fri, 8:30am-12:30pm Sat		12	6	4	5	8	9	10	10	11	12	12	5	10	9	8	9
1					Taxi Zone		5	1	0	1	0	0	1	0	0	0	1	0	1	1	0	0
0					No Stopping		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PUBLIC CAPACITY							**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**	**52**
	PUBLIC OCCUPANCIES							**27**	**24**	**32**	**32**	**34**	**38**	**40**	**36**	**38**	**39**	**32**	**37**	**34**	**38**	**38**
	PUBLIC VACANCIES							**25**	**28**	**20**	**20**	**18**	**14**	**12**	**16**	**14**	**13**	**20**	**15**	**18**	**14**	**14**
	PUBLIC % OCCUPANCIES							**52%**	**46%**	**62%**	**62%**	**65%**	**73%**	**77%**	**69%**	**73%**	**75%**	**62%**	**71%**	**65%**	**73%**	**73%**

not available for public parking



Thoughtful Transport Solutions

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