



Green Travel Plan

Client: The Trustee for Princes
Gateway Investments Trust

Project: 18-22 Princes Highway,
Werribee

Subject: Green Travel Plan

Date: 9/08/2023

Project Number: GIW22170

Revision: C

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Summary

The proposed development at 18-22 Princes Highway, Werribee is to adopt the strategies that promote the usage of public transportation, reduce reliance on the private motor vehicles; and encourage the use of sustainable modes of travel such as walking, cycling, and shared vehicles. The strategies aid the proposed development to minimize the environmental impacts associated with the transport related activities.

City of Wyndham has identified that in 2016, 68.7% of their residents travel to work by car or truck, 15.2% catch the train or bus, 1% walk, 0.3% by motorbike and 0.3% by bicycle. With car use being the dominant mode of transport to this day, surveys have shown that addressing traffic congestion is a top priority for the community.

The 2023 Wyndham Integrated Transport Strategy for 2040 aims to offer a wide choice of transport options, support efficient travel within and beyond its region, and provide a sustainable transport system that maximises safety, health, equity, social inclusion, quality of life, environmental outcomes, and economic prosperity.

This is to be driven by the targets that include tripling the proportion of walking and cycling trips by 2040 and 50% of all trips to use sustainable and equitable modes of transport by 2040.

Sources of Information

The following 'Sources of Information' have been used to guide the design solutions:

- I2C – Project No. 2022-023 – Drawing No. TP01-TP19 Rev C.
- Infrastructure Victoria
- Parliament of Victoria - Report on Climate Change and Greenhouse Gas Emissions in Victoria
- Wyndham Planning Scheme
- Wyndham Integrated Transport Strategy 2023
- Wyndham Active Transport Strategy 2020

Revision History


Revision Number	Date Issued	Author	Approved	Comments
A	24/03/2023	MS	IB	Draft
B	29/03/2023	MS	IB	Draft
C	09/08/2023	MS	IB	Final

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1.0 Introduction

GIW Environmental Solutions Pty Ltd ("GIW") has been engaged by The Trustee for Princes Gateway Investments Trust to prepare a Green Travel Plan (GTP) for the proposed development at 18-22 Princes Highway, Werribee. This assessment responds to the Wyndham Planning Scheme Clause 18.01-18.02 and aims to implement suitable infrastructure in the proposed development to promote the use of sustainable travel options.

The transport sector is the second largest emitters of greenhouse gases (GHG) after industrial sources in Victoria. It accounts for approximately 20% of the state's total emissions (22.3 million tonnes (Mt) of carbon dioxide emissions (CO₂ e) out of a total of 113.9 Mt (CO₂ e) – 2016 data). The Victorian Government has initiated a number of policies, planning to offset the emissions and encourage sustainable modes of transport. These policies are adopted by several local governments and require a strategic green and sustainable transport plan for new developments. The purpose of this report is to provide an integrated and quantifiable plan to implement sustainable transport at the proposed development.

The aim of the GTP is to minimize the environmental impacts associated with commuting or travelling to or from the proposed development.

The plan accounts for the mandates and requirements of the transport policies of the Wyndham Council and lays out the suitable sustainable transport strategies for the proposed development based on the following objectives:

- To reduce reliance on private motor vehicles
- To promote the use of public transportation
- To encourage the use of sustainable modes of transport such as walking, cycling, and shared vehicles.

2.0 Subject Site

The site is located at 18-22 Princes Highway, Werribee, has an approximate surface area of 6,684m² and is currently the location of one empty lot and one commercial building with ancillary sheds and carparking. Located in the Werribee Principal Activity Centre, the distance from the site to Melbourne CBD is approximately 31km.



Figure 1 - Pre-existing site at 18-22 Princes Highway, Werribee

2.1 Existing Transport Infrastructure

The following transport infrastructure is available at the subject site as at 9/08/2023.

Public Transport

The development is adjacent to the Wattle Ave/Princes Hwy Bus Stop and is approximately 1.1km from the Werribee Train Station, which both connect to Hoppers Crossing Railway Station. This station connects to the major train lines of the city. Figure 2 and Table 1 shows the convenient transport services for the development.

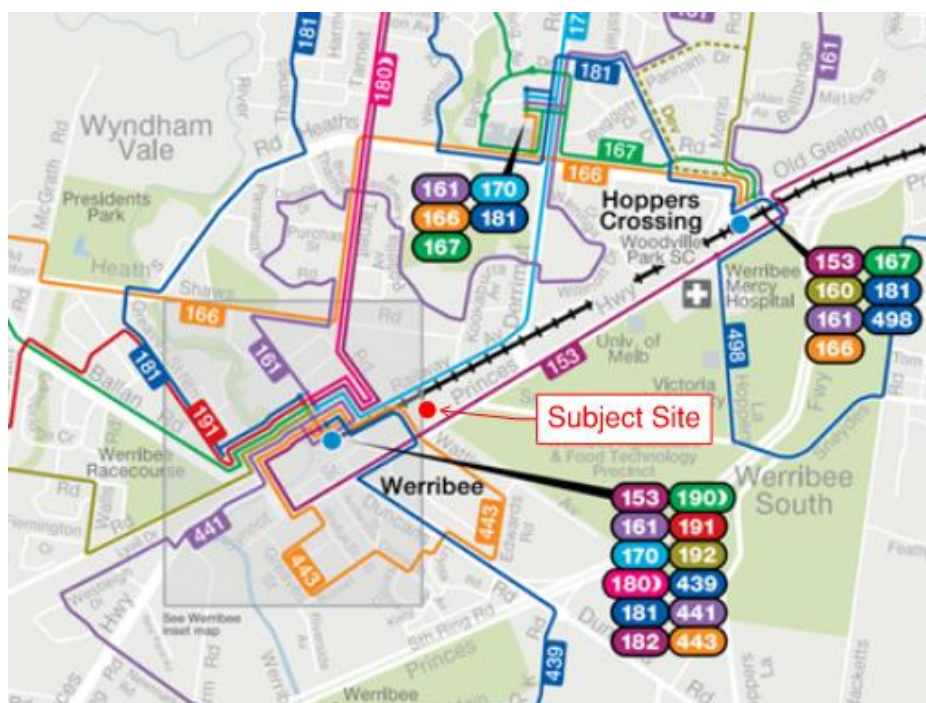


Figure 2: Public Transport

Table 1: Public transport services

Transport System	Closest Stop	Route	Approximate Distance/ Time
Train	Werribee Railway Station	Werribee City (Flinders Street) - Werribee	1.1 km/18 min
Bus	Wattle Ave/Princes Hwy	153	0.1 km/1 min
	Bowman St/ Wattle Ave	443	0.3 km/5 min
	Conquest Dr/Railway Avenue	170	1 km/14 min
	Glenluss St/Tarneit Rd	180/182	0.6 km/11 min

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Car Share

There are no car share services available within close proximity of the subject site.

Taxi Services

Table 2 enlists the 24X7 available taxi services that can be utilized from the site.

Taxi	Contact Details	Wheelchair Access
13 CABS	13 2227	-
Embassy Taxis	13 1755	-
Silver Top Taxis	13 1008	8413 7202
Crown Cabs	9310 5422	-
Maxi Taxi	13 6294	9277 3877

Cycling Infrastructure

Greater Melbourne has an extensive bicycle network, and the subject site is adjacent to the established path on Princes Highway. This provides good access to the principal bicycle path network which runs through Wyndham and connects across the metropolitan region as outlined in Figure 4 below.

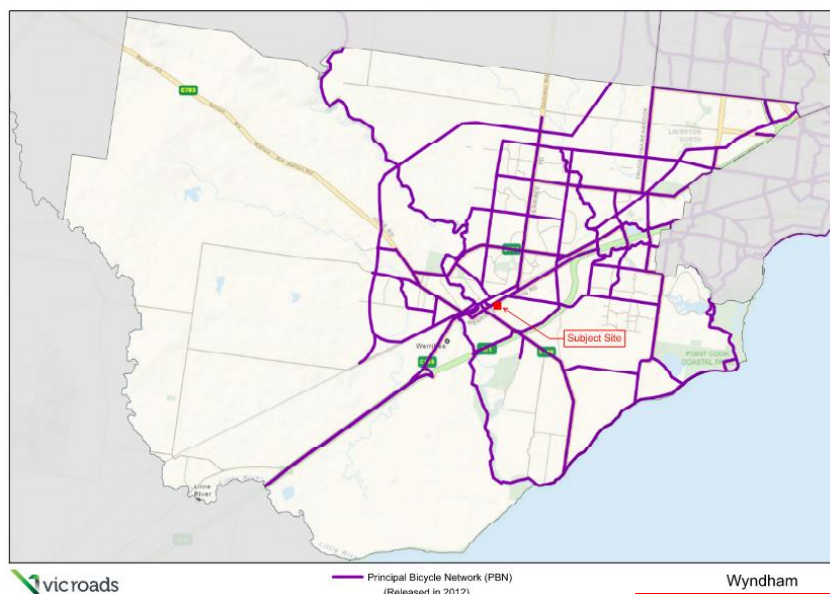


Figure 4: Bicycle Network around the site

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Pedestrian Infrastructure

Besides the convenient access to many transport networks, the subject site is also equipped to provide walking infrastructure to amenities as shown in the Figure 5 below. The Walkscore of the site is 65% making it suitable to multiple modes of transport.

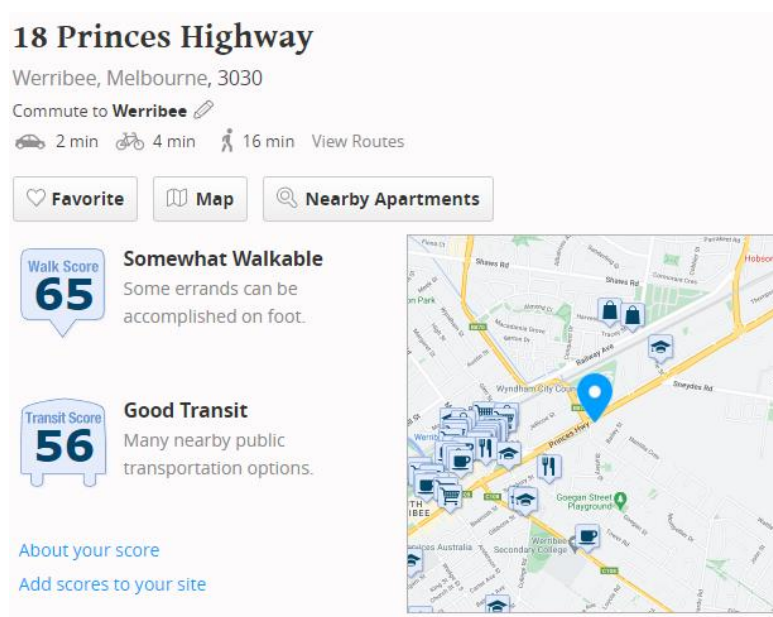


Figure 5: Walkscore for the proposed site at 18-22 Princes Hwy.

3.0 Relevant Policies & Planning

The Victorian Government is committed to providing sustainable transport infrastructure through state and local level policies. Infrastructure Victoria is targeting a zero-emission vehicle infrastructure in the next 30 years. This is to be achieved by enhancing the public transport infrastructure with improved end to end connectivity; encouraging the use of zero-emission vehicles; strengthening the existing bicycle network with the help of the Victorian Cycling Strategy 2018-28; providing safe and efficient pedestrian networks based on the Guidelines for developing Principal Pedestrian Networks.

These policies are reflected in the Wyndham Planning Scheme, under Clause 18.0: Transport, which seeks the provision of a safe, integrated, and sustainable transport system that encompasses safe and convenient pedestrian and bicycle infrastructure, promote public transport usage, reduce the reliance on the private motor car and reduce the impact of traffic. Clause 18.02-1S aims to promote the use of walking using following strategies:

- Develop principal pedestrian networks for local areas that link with the transport system.
- Provide walking infrastructure in all major transport projects.
- Design walking routes to be comfortable by providing shelter from the sun through canopy trees, verandas and other structures.
- Design direct, comfortable and connected walking infrastructure to and between key destinations including activity centres, public transport interchanges, employment areas, urban renewal precincts and major attractions.

Also, Clause 18.02-2S encourages the use of cycling by the following means:

- Cycling routes and cycling infrastructure early in new developments and in all major transport projects.
- Cycle parking and related end of trip facilities to meet demand at education, recreation, transport, shopping, commercial, public transport interchanges and community facilities, significant trip generating developments and other major attractions.
- Facilities for cyclists, particularly storage, at public transport interchanges and rail stations.
- Vegetation to shade cycling routes.

City of Wyndham has identified that in 2016, 68.7% of their residents travel to work by car or truck, 15.2% catch the train or bus, 1% walk, 0.3% by motorbike and 0.3% by bicycle (Wyndham Active Transport Strategy 2020, page 13). With car use being the dominant mode of transport to this day, surveys have shown that addressing traffic congestion is a top priority for the community (Wyndham Integrated Transport Strategy 2023, page 4).

The 2023 Wyndham Integrated Transport Strategy for 2040 aims to offer a wide choice of transport options, support efficient travel within and beyond its region, and provide a sustainable transport

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system that maximises safety, health, equity, social inclusion, quality of life, environmental outcomes, and economic prosperity.

The Council's intent is reflected in the GTP provided below. This will be implemented by the actions targeted to encourage the provision of sustainable transport facilities in the development, and their use by visitors and workers on site.

4.0 Green Transport Plan

The proposed commercial development at 18-22 Princes Highway, Werribee is to implement the GTP provided by GIW which provides measurable targets, and actions that are to be incorporated in design as well as operational stages. To communicate the plan and quantify its impacts, the GTP provides monitoring and reporting frameworks.

4.1 Targets

Based on the site location, existing transport infrastructure and policy framework the following targets are developed:

- Proportion of walking and cycling trips to triple by 2040 compared to the baseline assessment of year 1 of operations.
- Use of sustainable modes of transport such as walking, cycling, and shared vehicles for 50% of all trips by 2040.

The above stated target is facilitated by the actions proposed below that include involvement of the developer, tenants, workers and visitors.

4.2 Actions

Walking	Responsible Party
Provide footpaths and defined pedestrian routes and crossing points within the site facilitate safe and efficient access by workers and visitors.	Developer
Produce a walking map showing safe and pleasurable walking routes to and from the building with times, to local facilities, such as shops and public transport facilities (e.g. Walkscore) for use by tenants.	Developer
Subject to safety and operational requirements, maintain pedestrian access along the site frontages during construction.	Developer
Periodically, run a Travel Smart Get to Work activity, encouraging workers to travel by walking, cycling and public modes of transport	Tenants

Cycling	Responsible Party
Provide a map to tenants / employees outlining locations of bicycle parking facilities on-site.	Facility Manager / Developer
Provide 16 secure bicycle/e-bike parking spaces for employees to meet peak needs, which is easily accessible, well-lit and secure.	Architect / Developer
Provide 12 bicycle/e-bike parking spaces for visitors.	Architect / Developer
Ensure bike parking is clearly visible or provide signage to direct people to bike parking spaces.	Architect / Developer
Subject to safety and operational requirements, maintain pedestrian access along the site frontages during construction.	Builder
Supply puncture repair equipment, and a bike pump.	Developer
Provide a pool bicycle for workers to use when making short trips during the day.	Tenant(s)
Facilitate communication between cyclists on the site on issues relating to their travel mode, through social media and/or formation of a Bicycle Users Group (BUG).	Tenant(s)
Participate in annual events such as 'Ride to Work Day'.	Tenant(s)

Public Transport	Responsible Party
Provide to tenants a map showing public transport routes to the site and give links to online timetables and other information about available services.	Developer
Encourage employees to use public transport to access the site.	Tenant(s)
Encourage public transport use for business travel.	Tenant(s)

Car Parking	Responsible Party
Identify priority users of car park e.g. people with disabilities, shift workers and allocate priority parking spaces.	Building Management

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Travel for Work/ Amenities	Responsible Party
Encourage use of teleconferencing and other communication/information sharing technologies to reduce the need to travel for meetings.	Tenant(s)
Management	Responsible Party
Encourage tenants to implement an operational GTP addressing the needs of workers and visitors.	Building Management
Monitoring & Reporting – Conduct surveys of workers/tenants to determine the success/uptake of green travel initiatives.	Building Management

4.3 Monitoring and Reporting

Effective implementation of the GTP requires monitoring and annual review and reporting. The survey provided in Appendix A – Employee Commute Survey is to be distributed among building occupants biannually to identify the current green travel status and opportunities for further improvement, working towards the goal of 50% of trips to and from the site to utilise sustainable transport modes, by 2040.

Appendices

Appendix A – Employee Commute Survey

You are invited to participate in the Employee Commute Survey being conducted by xxx. The purpose of this survey is to find out how people are travelling to and from work, and see if there are practical ways to encourage greater use of walking, bike riding, carpooling/sharing or public transport. The survey will take about 5-10 minutes to complete. Should you have any questions or need more information, please contact the xxx at xxx. Your participation in the survey is highly appreciated!

1. Unit/ Office Level:

2. What is your usual mode of commuting to work:

Mode of Commuting	Approximate Percentage
Walk	
Bicycle	
Train	
Bus	
Motorbike	
Car (as driver)	
Car Share/ Car pool	
Other	

3. If you normally commute by car (on your own), what are your main reasons for this?

- ☐ Only option
- ☐ More convenience
- ☐ Safety concerns with other types of transport options
- ☐ Poor end to end connectivity of other transport options
- ☐ Cost effective
- ☐ Poor infrastructure/information for other modes of transport

☐ Travel Time

☐ If other, please specify:

4. If you currently commute by car (on your own), would you be interested in using other modes of travelling such as car share or car pool or biking on a regular basis?

☐ Yes

☐ No

5. If you are interested in changing your transport mode, what are the issues that would need to be addressed to make this possible for you?

6. Please use the following space to provide any other feedback you have about how we can work together to encourage the use of sustainable transport for accessing this site.

Thank you for participating in the survey.

Appendix B- Useful Resources

Information on Bus, Tram and Train Network

<http://ptv.vic.gov.au/more/maps/>

<http://ptv.vic.gov.au/journey/>

<https://www.bicyclenetwork.com.au>

Information on Cycling and Pedestrian Infrastructure

<https://www.walkscore.com>

<https://www.vicroads.vic.gov.au/traffic-and-road-use/cycling/bicycle-route-maps>

<https://www.wyndham.vic.gov.au/services/sports-parks-recreation/active-wyndham/bike-paths-walking-trails>

Car Share

www.flexicar.com.au

<https://www.goget.com.au/>

www.greensharecar.com.au