# <u>ARCADIA</u>

200 Aldington Road Industrial Estate Mamre Rd Precinct Visual Impact Assessment

Prepared for Ethos Urban 23 October 2020



# **ARCADIA**

Issue 2
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We respectfully acknowledge the Traditional Custodians of the lands where we live and work. We acknowledge their unique ability to care for Country and deep spiritual connection to it. We honour Elders past, present and emerging whose knowledge and wisdom has and will ensure the continuation of

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# 1.0 Introduction

## 1.1 Purpose of Report

### **Purpose of Report**

Arcadia Landscape Architecture has been commissioned by Ethos Urban to prepare a Visual Impact Assessment (VIA) to identify the potential visual impacts of the proposed 200 Aldington Road industrial estate on the surrounding area, identifying design strategies and make recommendations for the identified impacts. In addition, this report would inform the project approval authority, other agencies, and the community about the visual impact of the proposal and what mitigation strategies have been considered. The results of this assessment provide an indication of the expected impacts.

### Scope of works

Based on the Planning Secretary's **Environmental Assessment** Requirements, this VIA will include photomontages and perspectives of the development layout and design. The proposed development VIA will include factors such as: site coverage, setbacks, height, signage etc., particularly in terms of potential impacts on:

- Nearby public and private receivers
- Significant vantage points in the broader public domain
- Arlington Road
- The riparian corridor and wetland on site.



Issue

## 1.2 Methodology

### **Structure of the Report**

This report will review the site location and context of the study area and provide a character assessment of the visual envelope and impact of the proposed industrial estate. This review will be taken from various viewpoints as nominated below.

- Section 1 Introduction. This section provides an analysis of the local region of the study site. The review will then explore the local landscape setting in reference to the Mamre Rd Precinct Area Plan as well as provide a brief outline of the proposed industrial estate.
- Section 2 Visual Impact Assessment. Within this section of the report a visual analysis is provided of the proposed site's features such as topography and existing land uses. This analysis will provide a general understanding of the existing landscape character.

With this understanding the locations or viewpoints are nominated. The viewpoints will be used to take the various images of the site. The images are taken, and the viewpoint's coordinates are documented. With this knowledge the viewpoints are located within a Revit model of the proposed development that is digitally positioned within real world coordinates. Digital viewpoints of the site can be captured and then superimposed onto the images taken from site, enabling a credible illustration of 200 Aldington Road industrial estate\*. Refer to the following section. Process, for further detail.

The method to measure impact is based on a combination of the sensitivity of the existing area or view to change and the magnitude (scale contrast, quality, distance) of the proposal on that area or view. The combination of sensitivity and magnitude will provide the rating of the character for a visual impact. This measure or rating is achieved through the use of table 1.

• Section 3 – Mitigation and Recommendation Measures. The section of this report outlines the proposed strategies to mitigate the visual impact of the proposed estate. This section will also provide recommendation measures to mitigate impacts based on site assessment.

\*NOTE – The Mamre Road Precinct Report for the Western Sydney Employment Area has been referenced in this document. It has been used to review the local landscape setting in relation to proposed open space, drainage, and environmental conservation.

It is understood that in this plan, the proposed length of Aldington Road, and the lot at the back of proposed site, has been rezoned for industrial development. To make a satisfactory review of the visual impact of 200 Aldington Road when constructed, predictive measures of adjacent future industrial development has not been taken into account.

#### **Process**

### On Site

#### Photo Process

- A photo of each viewpoint under this visual assessment was taken on site.
- A photo of the visual impact was taken, followed by a photo of a compass used through iPhone.

#### Camera

- The Camera Model used to take the photos was a Canon EOS 7D Mark II
- Camera focal length of 30mm
- All photos were hand held, taken at eye level (1650m from Ground).

#### Geolocation

- Each compass photo recorded the photo location co-ordinate, degrees from True North and elevation.
- The longitude and latitude recordings were input into google earth to obtain the viewpoint locations in plan view.
- The project surveyor converted the longitude and latitude data to MGA 94 Plan co-ordinates to align to the existing site survey data.

#### Revit

- The Architectural Revit model was aligned to MGA 94 Plan coordinates, X 296833120.367 and Y=6252249938.402 provided by the surveyor. MGA 94 Plan co-ordinates of each site photo were input into Revit and located.
- An elevation as per the compass were input into Revit at each MGA 94 co-ordinate plus 1650m eye level.
- A camera view for each viewpoint was creating based off the MGA 94 plan co-ordinates provided from the surveyor's conversion. Each camera view had a corresponding degrees from the compass recorded on site which was modeled accordingly.
- Typography between the site and the photo locations were reviewed to provide a level of accuracy.

#### **Variables**

- Due to the lack of camera data Revit can import, the focal length of the camera used, was not able to be included in the process, this may cause variables in accuracy of montages.
- Taking a photo without a tripod may cause in accuracies between Revit model outputs and site photos.
- There was a level of estimation required to determine which trees in the foreground of the site montages were being removed or retained due to project works. This is a common variable which occurs when rendering perspective montages.
- Due to the lack of access on private properties, the visual impact photos were taken up to 1km from the site.
   Such a distance in photography have the potential to reduce the accuracy in locating site boundaries.

#### Accuracy Review

- An accuracy review was carried out to ensure any slight inaccuracies that occurred through the process were reduced.
- Due to lack of survey data between the site and the visual impact photos, site elements such as Power Transmission poles, electricity poles, significant mature trees were located in Revit using nearmap location or google earth co-ordinates and modeled to provide a reference point.
- Site boundaries were elevated within the revit model to cross check the location of the model within the montage.
- These processes allowed us to cross references and check the location and scale of the site within the visual montage.



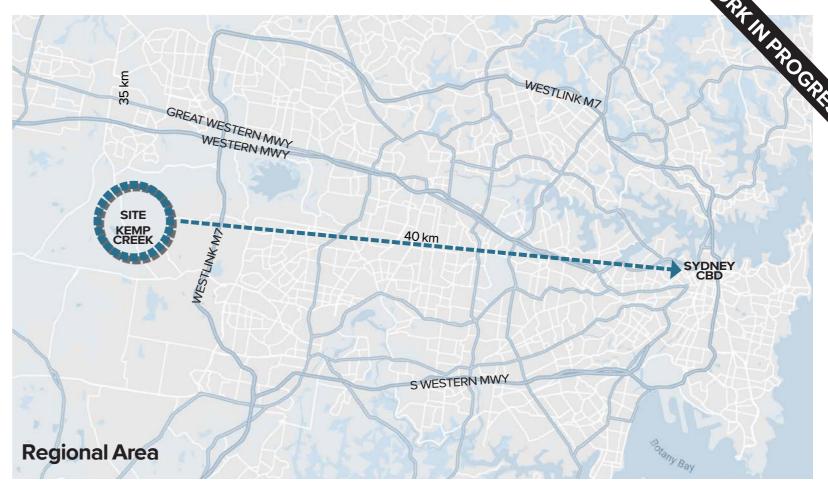
## 1.3 Background

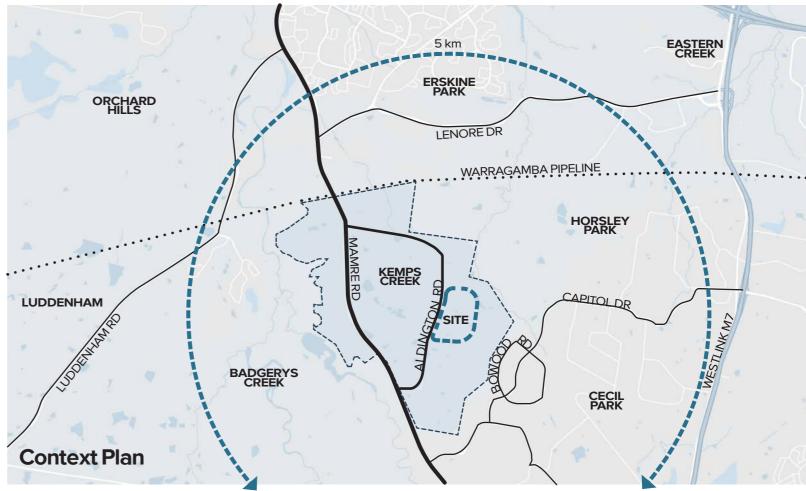
### Site Understanding

The Aldington Road Industrial Estate is situated roughly 40 kilometers west of the Sydney CBD and 12km south-east of the Penrith CBD. It is also located approximately 6 kilometers from the Western Sydney International (Nancy-Bird Walton) Airport. The concept plan comprises of 13 development lots for 356.660m<sup>2</sup> and located within the Penrith Local Government Area (LGA).

This area has been designated to form a part of the Western Sydney Employment Area (WSEA). WSEA is strategically identified industrial and employment land that is a rezoning initiative by the NSW Government - Department of Planning, Industry and Environment. Key operations in the WSEA include manufacturing, warehousing, transport and logistics facilities, the construction of infrastructure, industrial and residential development as well as retail trade to service staff in large business hubs/warehousing estates.

Under the same document the site location also falls under the zoning of Western Sydney Aerotropolis.





### 1.4 Site Location

The site, 200 Aldington Road Industrial Estate is a part of the Kemp Creek suburb. The Retirement Village and Anglican School that borders the Erskine Park Industrial Area, sits north of Kemp Creek. Rural residential and peri-urban lots run along Bowoord rd. West of Kemps Creek, contains a mix of peri-urban lots and low-level industry. The Rossmore suburb sits to Kemp Creek's southern boundary which forms a part of the Western Sydney Aerotropolis. The existing lot numbers of the proposal are 106-228 Aldington Road, Kemp Creek.

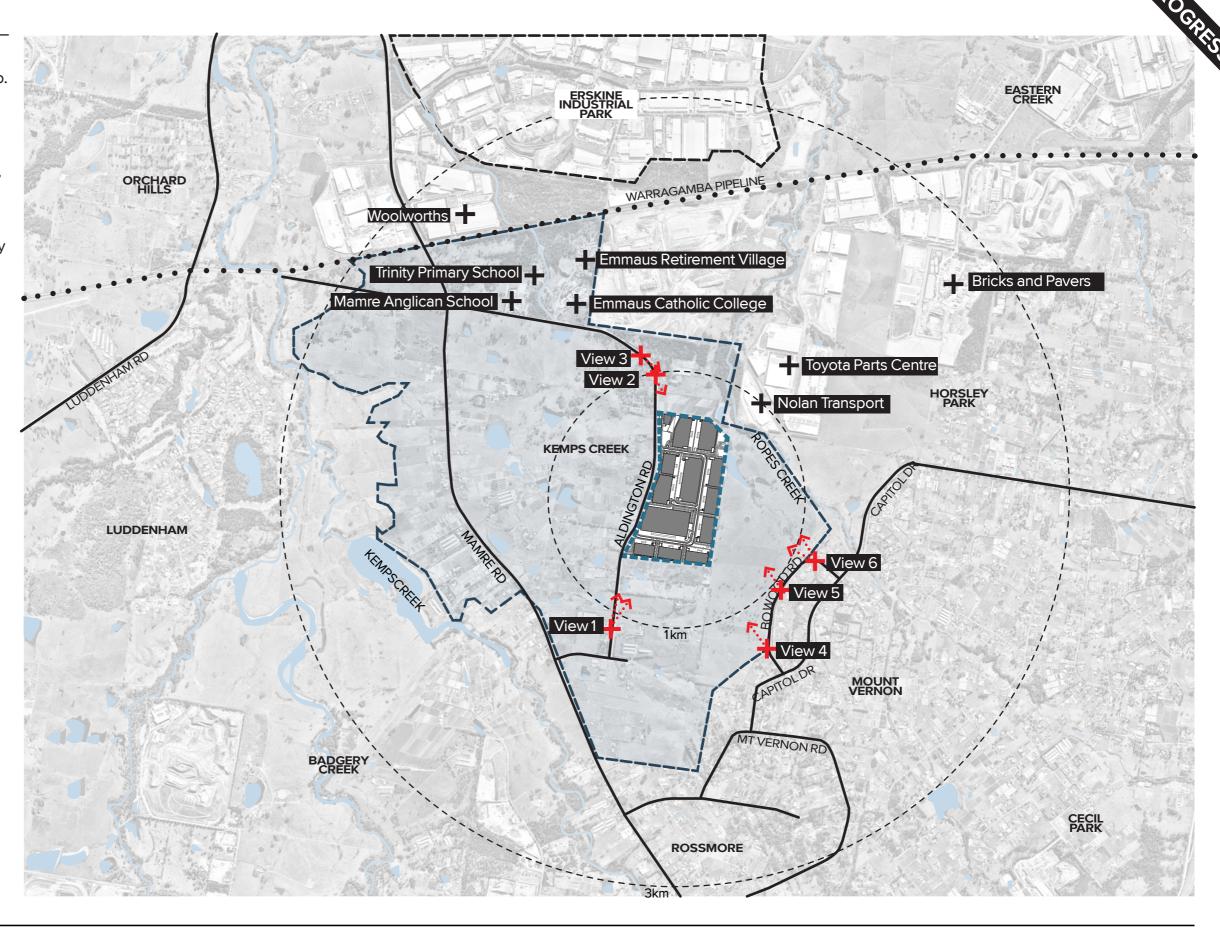
### Legend

--- Site Boundary → Visual Impact Viewpoint Locations

••• Direction of photo taken Surrounding industries

Mamre Precinct Zone, Refer pg 12

Erksine Park Industrial Area



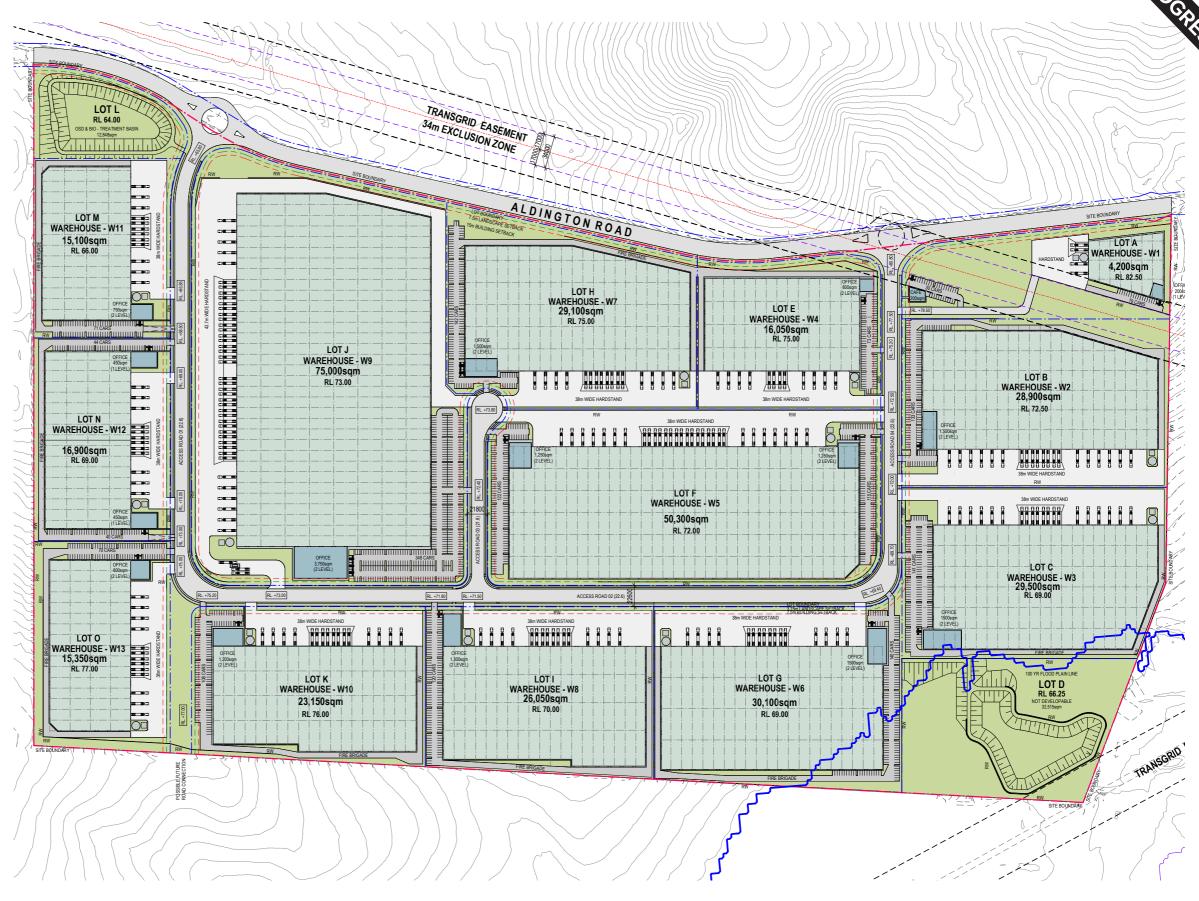
## 1.5 The Project

### **Project Objectives**

The Proposal aims to: Rezone of 200 Aldington to General Industrial

### **Development Works**

The concept plan comprises of 13 development lots at 356,660m<sup>2</sup> of warehouse floor space, 17,770m<sup>2</sup> office and 200m<sup>2</sup> café floor space, internal road layouts, parking and hardstand areas, landscaping, utilities and a Stage 1 development including site preparation, bulk earthworks, road works, infrastructure and utilities and a warehouse building with a total gross floor area of 52,500m<sup>2</sup>.



Refer SBA Architects, August, 2020.

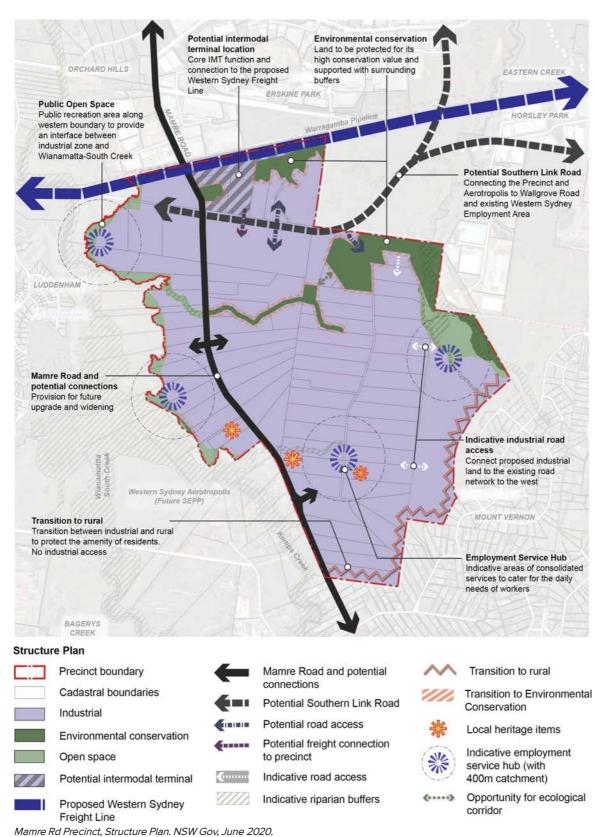


## 1.6 Existing Site Description

The proposed industrial estate is bound by Aldington Road to the west, existing rural properties to the north and south and pastoral land to the east. The proposed industrial estate exists within the Mamre Precint Structure Plan. (See diagram)

The existing attributes of the site include:

- •The site is highly modified from residential and horticultural/agricultural use
- •The landform of 106-228 Aldington Road forms a part of the Kemp Creek catchment and Ropes Creek catchment.
- •The far north east corner of the 200 Aldington Road sits within proposed drainage/open space areas and within the Ropes Creek corridor nominated for environmental conservation. For further information on this please refer to the associated Environmental Impact Statement.
- •An existing transgrid easement crosses over the far northwest corner of the site

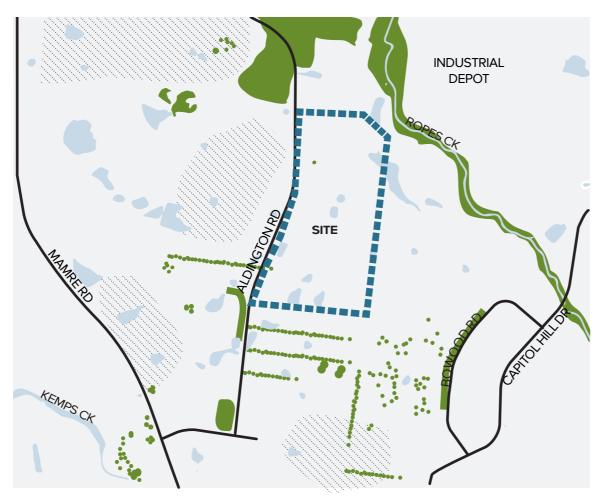


# 1.7.1 Local Landscape Setting

### **Natural Systems & Typography**

Due to the nature of the rural horticultural and husbandry area of the site, there are several dams and water bodies to support the existing land use. Surrounding these water bodies and horticultural areas are scattered canopy tree covers, which act as shelter belts.

The site spans over the high points of the area sloping down to Mamre Rd. The typography between Mamre Rd and Aldington Rd is separated by a peak in the landform which limits the visibility of the site from Mamre Road. The site flattens out between Aldington Rd and Bowood Rd.



### **Natural Systems and Canopy Coverage**

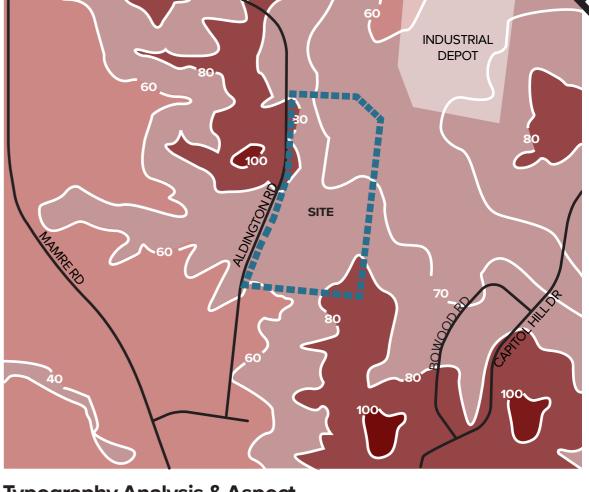
Legend

Agricultural and Horticultural, Refer Land use diagram, pg. 12

Water bodies

Canopy, Tree cover - refer to pg. 10 for vegetative character

Rolling Hills



### **Typography Analysis & Aspect**

Legend

100m Contour

80m Contour

70m Contour

60m Contour

40m Contour

## 1.7.2 Local Landscape Setting

### **Vegetation Communities**

As noted above the immediate setting for the proposed 200 Aldington Industrial Estate largely consists of peri-urban lots and low-level industry. The remanent and riparian vegetative character is representative of the Cumberland Plain Woodland or River-Flat Eucalypt Forest. The Structure Plan for Mamre Road Precinct – November 2019 highlights existing areas of ecological significance and has been listed as of high conservation value and listed as Endangered Ecological Communities (EEC). Refer to the associated EIS for further information.

The Cumberland Plain Woodlands is the name for the distinct grouping of flora species that are found in clay soils derived from shale on the undulating Cumberland Plain in central New South Wales. The dominant trees occurring in the woodland are Grey Box Eucalypts (Eucalyptus moluccana), Forest Red Gums (Eucalyptus tereticornis), Narrow-Leaved Ironbarks (Eucalyptus crebra) and Spotted Gum (Eucalyptus maculata). A variety of other lesser-known Eucalypts as well as shrubs, grasses and herbs are also found. The predominance of the Grey Box and Forest Red Gum makes the community distinctive (Department of Agriculture, Water and the Environment, 2020)

River-Flat Eucalypt Forests are located on the river flats of the coastal floodplains. The taller open tree layer consists of Eucalypts, that exceed 40 m in height, but are often considerably shorter in regrowth stands or in conditions of lower site quality. The most widespread and abundant dominant trees species include Forest Red Gum (Eucalyptus tereticornis), Cabbage Gum (E. amplifolia), Rough-barked Apple (Angophora floribunda) and Broad-leaved Apple (A. subvelutina). A layer of shorter trees can be present that include Feather Honey Myrtle (Melaleuca decora), Prickly-leaved Teatree (M. styphelioides), Grey Myrtle (Backhousia myrtifolia), White Cedar (Melia azaderach), River Oak (Casuarina cunninghamiana) and Swamp Oak (C. glauca). (Office of Environment & Heritage, 2019)









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## 1.7.3 Local Landscape Setting

### Land Use Analysis

The land use across and surrounding the site consists predominantly of agricultural and horticultural land uses. These agricultural properties comprise of low level farming with sheds, outbuildings and horticultural amenities.

Rural residential use occupy a small percentage of the site. To the west of the site sits a low level density residential zoning. For this reason, viewpoints along Bowood Road have been selected to aid visual assessment from this perspective of 200 Aldington Street.

An existing industrial depot is located north east of the proposed site. These include the following: 1. the Oakdale Central Industrial Estate (SSD 6078), 2. Oakdale South (SSD6917), 3. Proposed site of Oakdale West (SSD7448) which will eventually be located north to this proposal.







### Land Use Analysis

### Legend

Irrigated Horticulture

Rural Residential and Peri urban lots

Research Services Facilities

Intensive Animal Husbandry

Grazing modified pastrues

Manufacturing and Industrial

2.0 Visual Impact Assessment

# 2.1 Visual Assessment Viewpoints

### **Viewpoint Assessment**

This section outlines the impacts of the project from the following viewpoint. The following 6 locations have been used to take viewpoints over the proposed 200 Aldington Rd estate. The co-ordinates for these locations are identified in the table below.

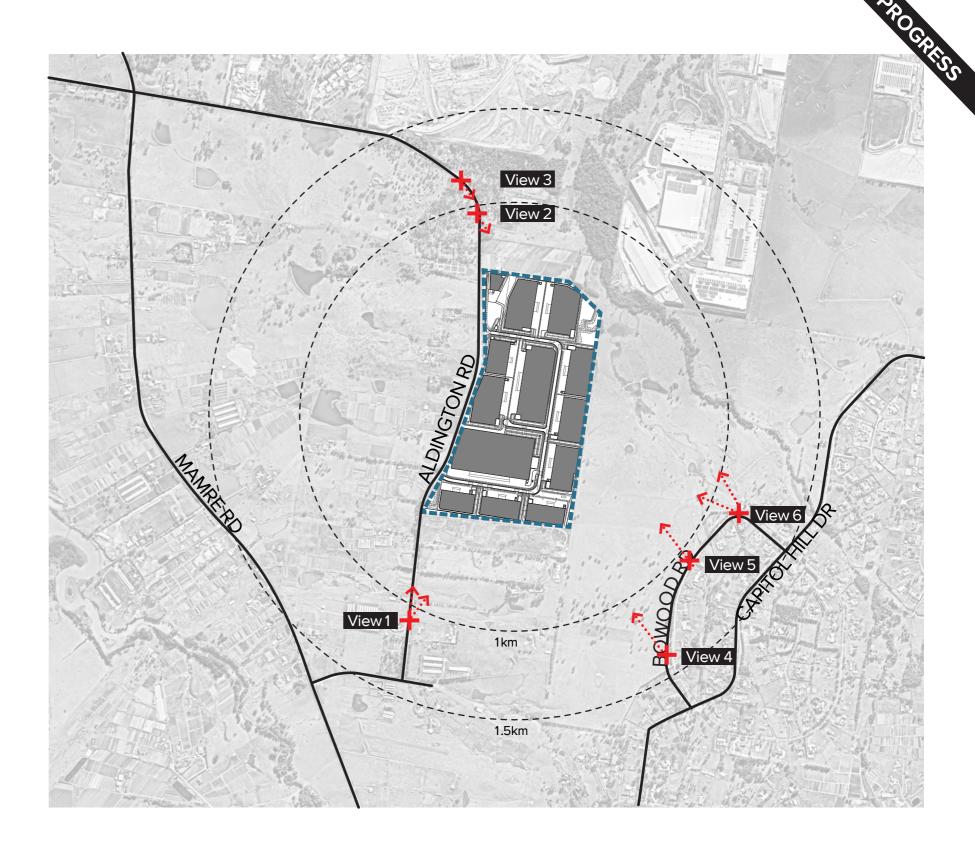
VIEWPOINT NO.	LOCATION	NORTHINGS	EASTINGS
Viewpoint 1	Aldington Rd, South	33 51 7S	150 47 44E
Viewpoint 2	Aldington Rd, North	33 50 9S	150 47 57E
Viewpoint 3	Aldington Rd, North	33 50 7S	150 47 54E
Viewpoint 4	Bowood Rd, South	33 51 20S	150 48 33E
Viewpoint 5	Bowood Rd	33 51 5S	150 48 39E
Viewpoint 6	Bowood Rd, North	33 50 58S	150 48 39E

### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

••• Direction of photo taken



# 2.2 Visual Sensitivity and Magnitude

### Sensitivity

The visual sensitivity is based on how sensitive the character of the setting is to the proposed change.

### Magnitude

The visual magnitude depends on the scale and contrast of the proposal and its visual integration of form, line, shape, pattern, colour and texture. Viewer access also influences the visual magnitude.

The proceding viewpoints will be accessed individually and provided a rating as per the Landscape Character and Visual Impact Rating Matrix.

	Magr	Magnitude						
		High	High to Moderate	Moderate	Moderate to low	Low	Negligible	
High	Hi	gh Impact	High Impact	Moderate-high	Moderate-high	Moderate	Negligible	
High to Mod	erate Hi	gh Impact	Moderate-high	Moderate-high	Moderate	Moderate	Negligible	
Moderat	e Mod	derate-high	Moderate-high	Moderate	Moderate	Moderate-Low	Negligible	
Moderate to	low Mod	derate-high	Moderate	Moderate	Moderate-Low	Moderate-Low	Negligible	
Low	V	Moderate	Moderate	Moderate-Low	Moderate-Low	Low Impact	Negligible	
Low Negligibl	e N	legligible	Negligible	Negligible	Negligible	Negligible	Negligible	

Table 1: Landscape Character and Visual Impact Rating Matrix.

# 2.3.1 Viewpoint 1 ALDINGTON ROAD EXISTING SITE

**Existing Site** 

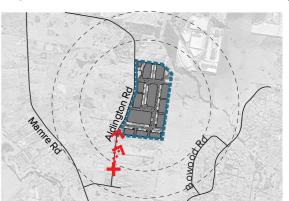
### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

---> Direction of photo taken

### Key Plan





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# 2.3.1 Viewpoint 1 ALDINGTON ROAD VISUAL MONTAGE

### Visual Montage

Viewpoint 1. This view facing north along Aldington Road represents an outlook of a public receiver traveling in a vehicle. The view of the proposed development sits approximately in the middle left hand portion of the image, just below the horizon line.

The cluster of existing trees in the foreground and middle ground largely

screen the proposal and a low impact value has been assigned.\*

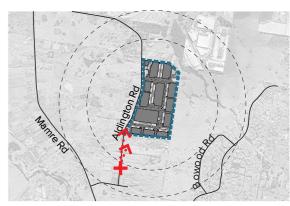
\*Note that the below perspective does not include the proposed landscape to 200 Aldington Road. During the time of documentation of this report, only Stage 1 of the masterplan had been detailed with landscape treatments.

### Legend

--- Site Boundary

Visual Impact Viewpoint Locations

··· Direction of photo taken





# 2.3.2 Viewpoint 2 aldington road existing site

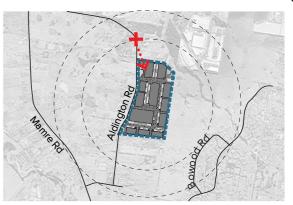
**Existing Site** 

### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

---> Direction of photo taken





# 2.3.2 Viewpoint 2 aldington road north visual montage

### Visual Montage

Viewpoint 2. This view has south/ east facing along Aldington Road and represents an outlook of a public receiver traveling in a vehicle. The view of the proposed development sits approximately in the middle right hand portion of the image, on the horizon line.

The cluster of existing trees in the foreground and middle ground largely

screen the proposal and a low impact value has been assigned.\*

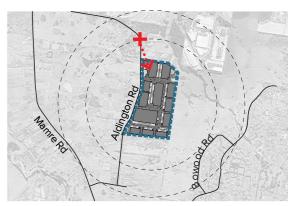
\*Note that the below perspective does not include the proposed landscape to 200 Aldington Road. During the time of documentation of this report, only Stage 1 of the masterplan had been detailed with landscape treatments.

### Legend

--- Site Boundary

Visual Impact Viewpoint Locations

··· Direction of photo taken





# 2.3.3 Viewpoint 3 aldington road existing site

**Existing Site** 

**ARCADIA** 

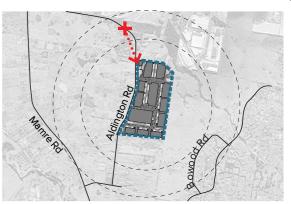
**200 Aldington Rd Kemps Creek.**Mamre Rd Precinct I Visual Impact Assessment

### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

---> Direction of photo taken





# 2.3.3 Viewpoint 3 aldington road visual montage

### Visual Montage

Viewpoint 3. This view along Aldington Road is facing towards the east and represents an outlook of a public receiver traveling in a vehicle. The view of the proposed development sits approximately in the middle to the lower right hand portion of the image.

The mid ground cluster of existing trees heavily screens the proposal and a low

impact value has been assigned.\*

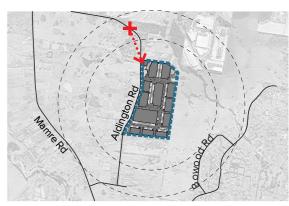
\*Note that the below perspective does not include the proposed landscape to 200 Aldington Road. During the time of documentation of this report, only Stage 1 of the masterplan had been detailed with landscape treatments.

### Legend

--- Site Boundary

Visual Impact Viewpoint Locations

··· Direction of photo taken





# 2.3.4 Viewpoint 4 bowood road south existing site

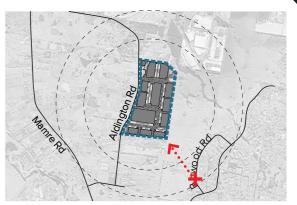
**Existing Site** 

### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

---> Direction of photo taken





## 2.3.4 Viewpoint 4 Bowood Road South VISUAL MONTAGE

### Visual Montage

View 04 – This view is located on Bowood Road facing north-west and is representative of the outlook from the street and from the front of private properties. The proposed site sits in the left-hand side of the midground of this montage and is in part screened by foreground and scattered midground trees.

The assessment of this view is of a

moderate-low value impact. So while the scale of the proposal within this viewpoint has been attributed with a moderate magnitude, the impact of this has been diminished by the modified pastoral landscape in the midground as well as the screening by existing vegetation reducing impact on sensitivity.\*

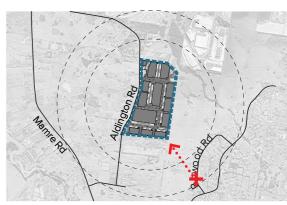
\*Note that the below perspective does not include the proposed landscape to 200 Aldington Road. During the time of documentation of this report, only Stage 1 of the masterplan had been detailed with landscape treatments.

### Legend

••• Site Boundary

→ Visual Impact Viewpoint Locations

··· Direction of photo taken





# 2.3.5 Viewpoint 5 bowood road exsiting site

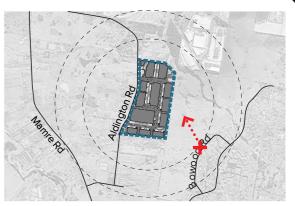
**Existing Site** 

### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

---> Direction of photo taken





### 2.3.5 Viewpoint 5 Bowood Road VISUAL MONTAGE

### Visual Montage

View 05 – This view located on the Bowood Road facing north-west and is representative of the outlook from the street and from the front of private properties. The proposed site sits in the mid section of the image along the horizon. The trees running along Bowood Road in the foreground and scattered trees towards the boundary of the site provide some screening over

the development. The backdrop of vegetation along the horizon also lessens the impact of the proposed site.

While the view is open and expansive, the lack of variation in the landscape and natural features do not make it particularly remarkable or unique. The assessment of this view is of a moderate-low value impact.\*

\*Note that the below perspective does

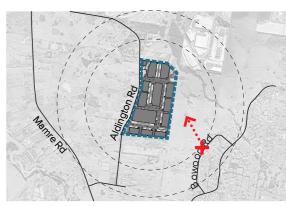
not include the proposed landscape to 200 Aldington Road. During the time of documentation of this report, only Stage 1 of the masterplan had been detailed with landscape treatments.

### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

··· Direction of photo taken





# 2.3.6 Viewpoint 6 bowood road north existing site

**Existing Site** 

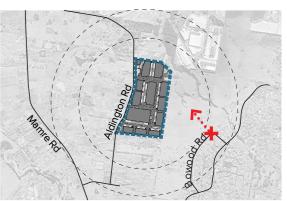
### Legend

--- Site Boundary

→ Visual Impact Viewpoint Locations

---> Direction of photo taken

### Key Plan





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# 2.3.6 Viewpoint 6 Bowood Road North Visual Montage

### **Existing Site**

View 06 – This view located on the Bowood Road facing north-west and is representative of the outlook from the street and from the front of private properties. The proposed site is located along the horizon line. This view is broken up by existing midground vegetation.

Similarly to View 05, this view is open and expansive and contains few notable

features. This is further diminished by the electrical pylon tower in the mid-ground. The assessment of the impact of the proposal in this view is of a moderate-low value.\*

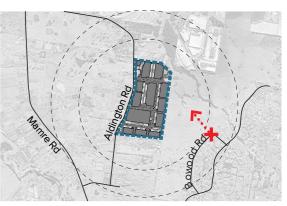
\*Note that the below perspective does not include the proposed landscape to 200 Aldington Road. During the time of documentation of this report, only Stage 1 of the masterplan had been detailed with landscape treatments.

### Legend

--- Site Boundary

Visual Impact Viewpoint Locations

··· Direction of photo taken





# 2.4 Overall Sensitivity and Magnitude Assessment Table & Summary

### **Viewpoint Assessment Summary**

### Visual Sensitivity

The site is surrounded by agricultural and horticultural land uses. As noted above, these agricultural properties comprise of low-level farming uses with large sheds/structures and horticultural amenities. As a result, the landscape has been largely modified from its original state. The local proximity of the Oakdale Industrial Estate introduces a character precedent. Also as noted above, some of the viewpoints are backdropped by remnant open forest.

In review of these character points the existing area of the proposal is generally considered to be a landscape of low sensitivity as per the Landscape Character and Visual Impact Rating Matrix.

#### Magnitude

The visual magnitude depends on the scale and contrast of the proposal and its visual integration of form, line, shape, pattern, colour and texture. Viewer access also influences the visual

### magnitude.

The public view to proposed works will be limited to local roads around the perimeter of the site. Within most circumstances only portions of the site at varying magnitudes will be seen due to existing vegetative screening.

The proposed works would also be viewed from residential lots along Bowood Drive (Capitol Hill). A wider view shed over the site will be accessed from these viewpoints. However, in most circumstances the site is partially screened by existing vegetation. Also, the pylon lines in the middle ground diminish from the quality and value of this view, as well as the scale of the proposal.

In review of the points the overall magnitude of the project is considered moderate to low.

VIEWPOINT	LOCATION	SENSITIVITY TO CHANGE	MAGNITUDE OF CHANGE	SIGNIFICANCE OF IMPACT
Viewpoint 1	Aldington Rd, South	Low	Low	Low
Viewpoint 2	Aldington Rd, North	Low	Low	Low
Viewpoint 3	Aldington Rd, North	Low	Low	Low
Viewpoint 4	Bowood Rd, South	Low	Moderate	Moderate-low
Viewpoint 5	Bowood Rd	Low	Moderate	Moderate-low
Viewpoint 6	Bowood Rd	Low	Moderate	Moderate-low

Issue

3.0 Mitigation and Recommendation Measures



## 3.1 Mitigation and Recommendation Measures

As noted above, the montaged images have not included the proposed landscape works. Also noted above, much of the existing vegetation in the surrounding landscape is largely representative of the Cumberland Plain Woodlands or River-Flat Eucalyptus Forests. It is a recommendation of this report that where plausible the proposed landscape species for 200 Aldington Road be taken from these flora palettes. A plant palette that uses local indigenous species will add several qualities and benefits such as:

- 1. The proposed landscape of indigenous species will assist in blending the proposal with its vegetative backdrop as well as capture the local character of place;
- 2. Indigenous planting onsite will add to the ecological value of the proposal by adding to existing vegetative corridors in place for wildlife to move;
- 3. Indigenous plant species will likely be lower in maintenance requirements.

Another consideration with the landscape design is to plant internally along the perimeter of the boundary where possible with small trees and large shrubs. Not being visible from a distance, chain wire fencing should be used to allow for the internal planting to screen buildings.

Issue

### 3.2 Conclusion

In review of the local landscape setting and a visual analysis of the site, this assessment found that the visual sensitivity of the existing landscape was generally of low sensitivity. While the magnitude of the proposed site was generally regarded to be of moderate to low impact as per the Landscape Character and Visual Impact Rating Matrix. These values were ascertained after the analytical undertakings of the site's context, its existing zoning, and land use, as well as consideration of viewsheds over the proposal, and comparative scale to existing structures and infrastructure. Lastly, it has been recommended that with the use of local species planting, the visual impact of the proposal can be lessened further.

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