



**Mayland Lakes 2018 Revegetation Plan**  
**Brickworks Lake · Lake Bungana · Lake Brearley**



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## 1.0 Introduction

The City of Bayswater has prepared this plan to restore the wetland around:

- Brickworks Lakes
- Lake Bungana
- Lake Brearley.

The site is located in the southern ward of the city bordered by Peninsula and De Havilland View. The revegetation areas occupy an area of approximately 0.5 ha.

The revegetation areas are characterised by non-native landscape plantings and weed species. The site has high densities of woody weeds including:

- *Casuarina cunninghamia*
- *Schinus terebinthifolius*
- *Washingtonia robusta* (Figure 1)
- *Acacia longifolia*
- *Callistemon viminalis*.



Figure 1: Thickets of introduced vegetation

The revegetation management plan will aim to:

- identify revegetation areas (Figure 2)
- describe the key characteristics of the site
- outline weed control activities
- describe revegetation methodology
- cost proposed works
- provide an indicative implementation schedule.



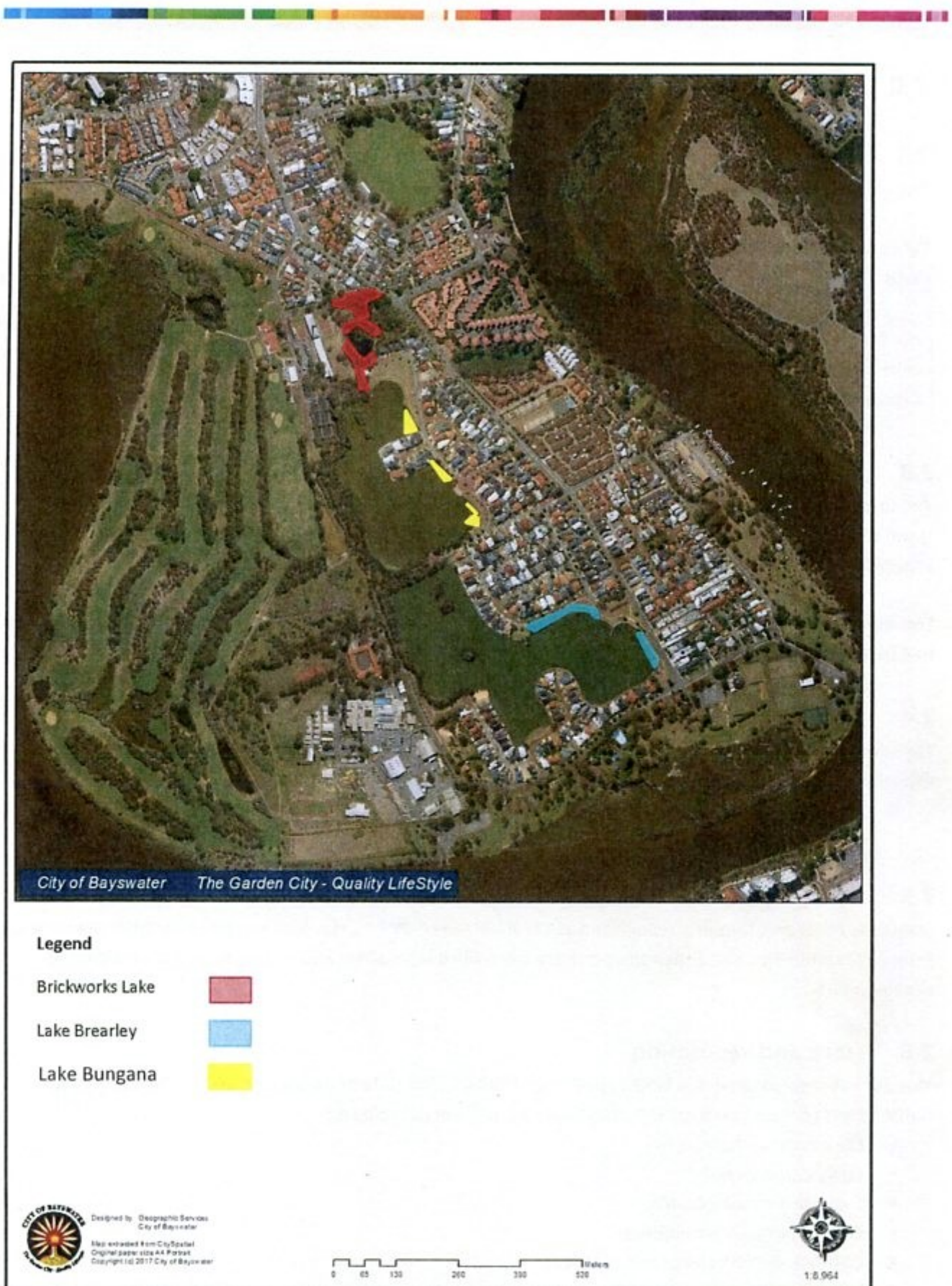


Figure 2: Revegetation areas 2018



## 2.0 Current site characteristics

### 2.1 Tenure

The reserves are managed by the City of Bayswater. Management responsibilities are provided in Table 1.

**Table 1:** Maylands Lakes Tenure

Site	Lot Numbers	Owner	Management order
Brickworks Lake (Figure 5)	211, 539	City of Bayswater (211, 539)	City of Bayswater (211, 539)
Lake Bungana (Figure 6)	R 46177	State Of Western (R46177)	City of Bayswater (R46177)
Lake Brearley (Figure 7)	R46293	State of WA (R46293)	City of Bayswater (R46293)

### 2.3 Topography

The reserve is located on the Swan Coastal Plain, a long coastal strip running from Cape Naturaliste in the south to Gingin in the north. It is characterised by a series of low parallel dunes made up of marine sediments laid down during recent glacial periods.

The site contains flat to undulating land, the elevation is approximately 2 m AHD along the lake edges rising to 4 m AHD along the western boundary of the site (City of Bayswater, 2017).

### 2.4 Soils

The site is located on the Pinjarra plain system and identified as the 213PJSWMs2 mapping unit. The department of Agriculture and Food (2017) describes the soil as the system as:

- Sandy Silt - strong brown to mid grey, mottled, blocky, disseminated fine sand, hard when dry, variable clay content of alluvial origin.

### 2.5 Hydrology

Maylands Lakes was formerly recognised as the Maylands Clay Pits, clay was extracted for brick manufacture from 1927 until 1984. Since then the pits have been filled with water and reconstructed for residential development.




### 2.6 Flora and vegetation

The site has been cleared and landscaped from 1998 to 2000 (City of Bayswater, 2017). The species within Garden beds contain non-local landscape species and weeds including:

- *Melaleuca quinquernerva*
- *Callistemon vimialis*
- *Casuarina cunninghamia*
- Pepper (*Schinus terbinfolia*)
- Cotton Palm (*Washingtonia robusta*).

Vegetation descriptions are described in Table 2.

**Table 2: Vegetation Types**

Vegetation type	Description	Figure
Mixed dense forest	<i>Eucalyptus rudis</i> , <i>Washingtonia robusta</i> over <i>Rubus fruticosus</i> and <i>Cyperus involucratus</i>	
Mixed <i>Melaleuca</i> woodland	<i>Melaleuca raphiophylla</i> , <i>M. cuticularis</i> and <i>M. quinquenervia</i> woodland over sparse understorey	
<i>Casuarina cunninghamia</i> open forest	<i>Casuarina cunninghamia</i> forest over sparse understorey of <i>Grevillea preissii</i> and environmental weeds	



### 3.0 Revegetation plan

Works within this plan include:

- preplanting weed control
- hand weeding
- installation of tubestock

#### 3.1 Woody weed removal

Woody weeds have the ability to regenerate from root material following clearing, particularly:

- *Casuarina cunninghamia*
- *Melaleuca quinquenervia*
- *Schinus terebinthifolius*.

Woody weeds will be removed within the Brickworks revegetation area and within 4 m of the water at Lake Brearley. The southern revegetation area will not have any vegetation removed prior to planting.



Figure 3: *Casuarina cunninghamia* Lake Brearley

#### 3.2 Weed control

Ongoing weed control will be required to allow native vegetation to establish. Following slashing the entire site should receive the following weed treatments:

- broadleaf weed control
- follow up manual removal of any existing woody weeds.



**Figure 4:** Successive weed treatments will be required to reduce coverage of weeds at Brickworks Lakes

### 3.3 Planting

The sites will be planted with two species mixes (Appendix 1 -3):

- wetland
- transition zone

Plants should be sourced from a nursery accredited under the Industry Accreditation Scheme Australia (NIASA). A species list for the site is provided in Appendix 1-3.



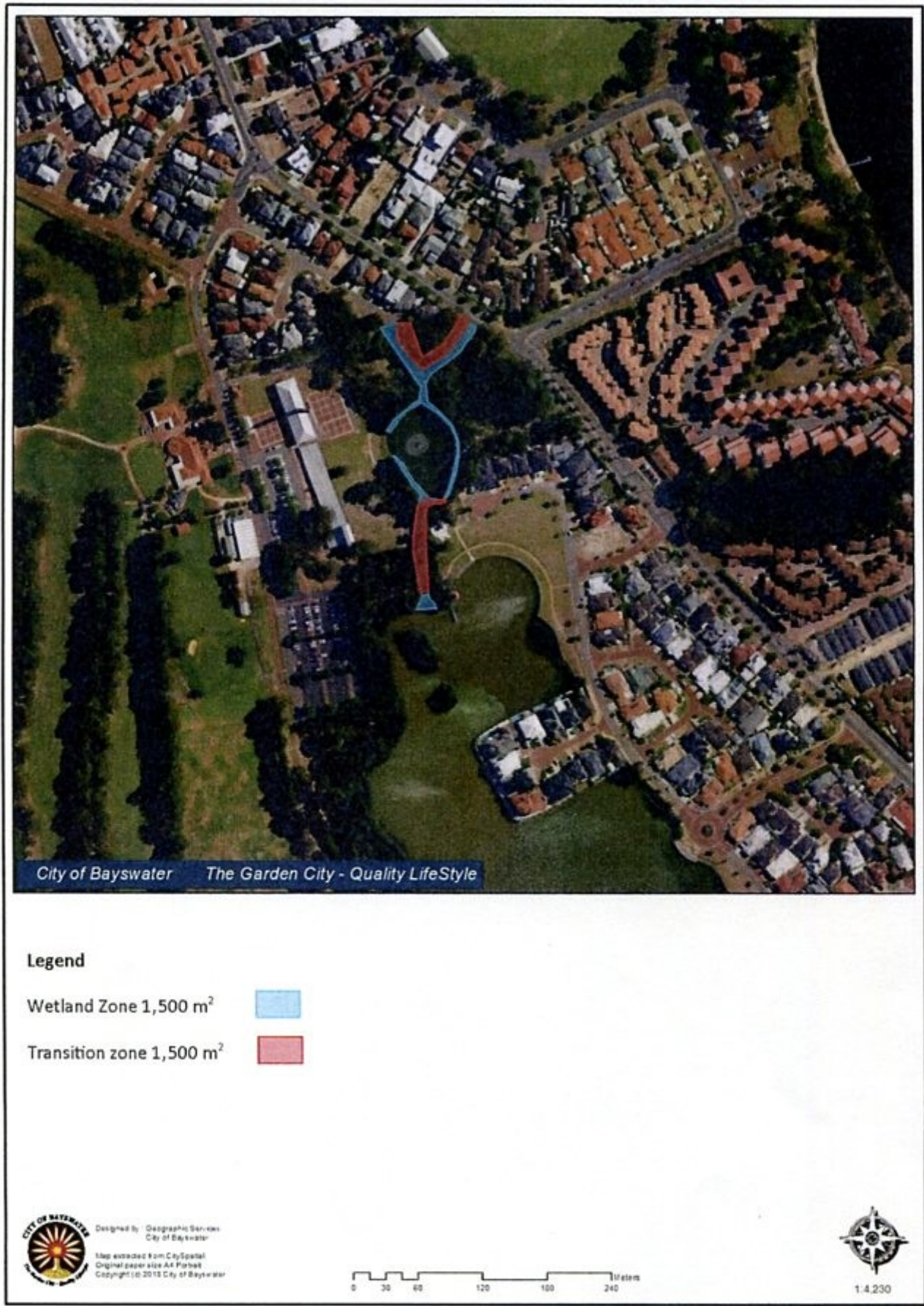


Figure 5: Brickworks Lake planting areas



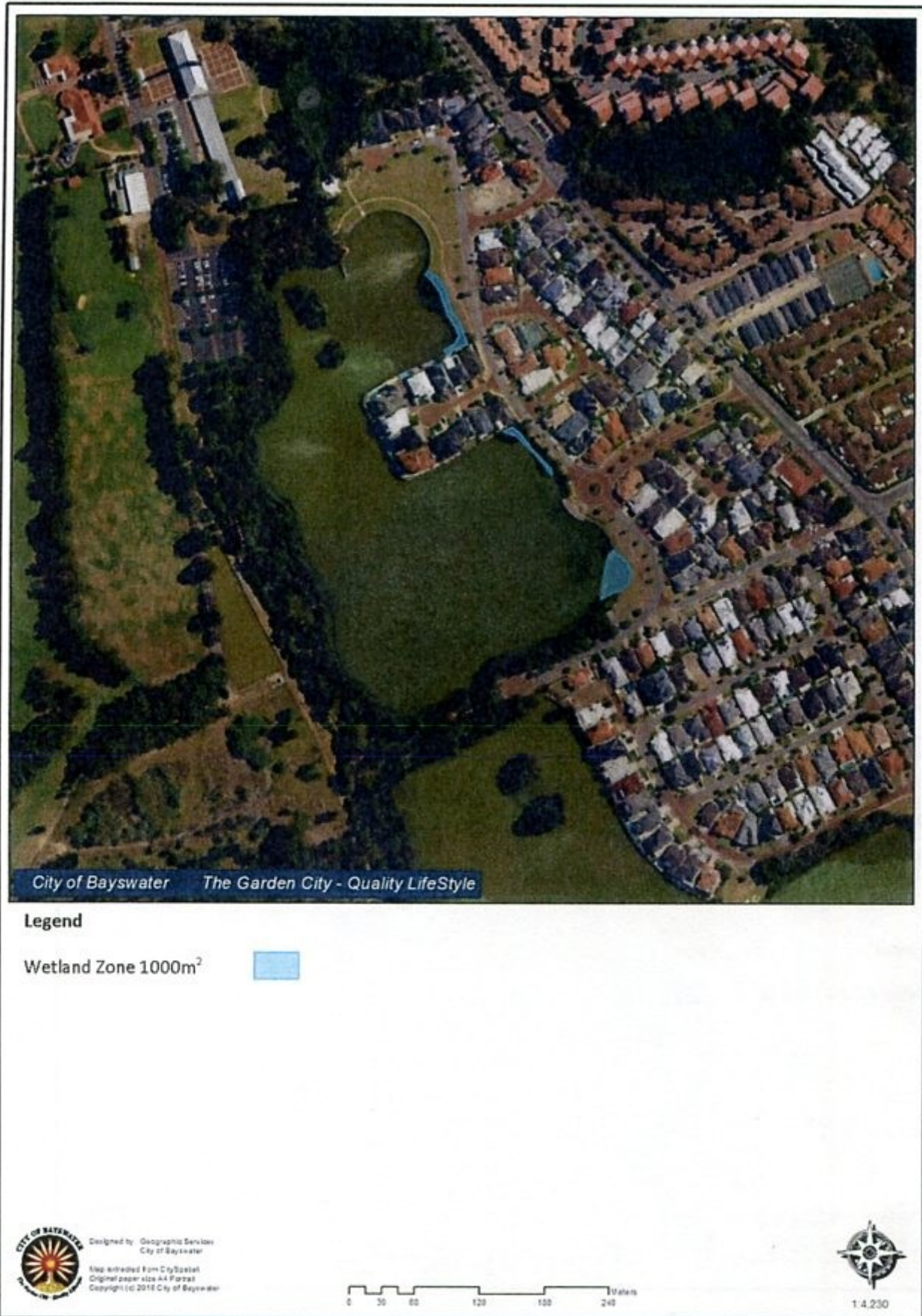


Figure 6: Lake Bungana planting areas





Figure 7: Lake Brearley planting areas

## 4.0 Schedule

Table 3: Indicative revegetation schedule

Year 1 Brickworks Lake												
Works	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plant order				■								
Woody weed chemical					■							
Woody weed removal						■						
Weed control							■	■				
Planting									■			

## 5.0 References

Bureau of Meteorology. (2017). *Climate statistics*. Retrieved from [http://www.bom.gov.au/climate/averages/tables/ca\\_wa\\_names.shtml](http://www.bom.gov.au/climate/averages/tables/ca_wa_names.shtml).

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