

4.4.1 Biodiversity

Scope of the system

This system covers the natural infrastructure of Callan Park, both terrestrial and aquatic. It relates to all habitats of both resident and migratory species. The Master Plan provides the potential to protect and enhance the existing fauna and flora that thrives within Callan Park as well as connections to existing habitats on its boundaries.

Existing condition and situation

Callan Park is an important ecological habitat for a variety of flora and fauna. Callan Point contains the only area of remnant Iron Bark Forest within the Leichhardt Local Government area, and Callan Park and the Iron Cove foreshore environs provide habitats for native and exotic flora and fauna. A community led bush care and regeneration project has been under way since 1994.

There are several areas of Callan Park where self-seeding and exotic tree species have not been managed. A colony of cats living within the Convalescence Cottages will need to be relocated as part of the Master Plan implementation.



Master Plan objectives and targets

The Master Plan will enhance the long-term ecological value of Callan Park and provide opportunities to connect wider habitats along Iron Cove. The individual projects for implementation to achieve this will be supported by both site-wide and localised studies that will inform the individual actions related to biodiversity at Callan Park as well as the other projects across the site. These studies will include:

- site wide tree and habitat survey to inform on-going management implementation and decision-making.
- development of smartphone application to provide site-wide botanical information that will be used by management and maintenance staff as well as visitors to Callan Park.
- establishment of management and implementation plans for each bush care and regeneration areas.
- terrestrial and aquatic habitat assessment.
- collection of local provident seeds to ensure all new planting will be from local native stock.

Implementation

Figure 4.2 Biodiversity in Callan Park

BIODIVERSITY OVERLAY
 existing vegetation
 proposed vegetation
 ecological corridor

Removal of invasive species to the north and west of the Convalescence Cottages to open views to and from Iron Cove. Replacement planting with Tall Trunked Eucalyptus

Bush regeneration area around Glover Street Oval. Alignment of planting set back to follow outline of the sporting fields

Ecological corridor between bush regeneration areas to the east and west of Callan Park - Planting of native providence species providing habitat for resident and migratory fauna

Glass house for use by bush care and regeneration groups to use for propagation of native providence stock

Bush regeneration area extending from Callan Point to the Manning Street access, planting with native provident species

Remove trees in poplar avenue - Planting to allow an informal transition between Kirkbride and Callan Point [Policy 5.28 CMP 2002]

Bush regeneration to screen electrical substation

Remove self-seeded trees [Policy 5.31 CMP 2002]

Remove avenue and row plantings [Policy 4.51 CMP 2002]

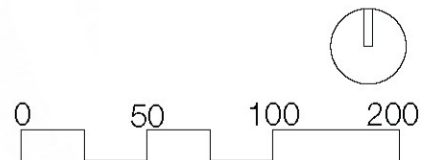
Port Jackson Figs planted as an avenue along Balmain Street frontage between the junction with Wharf Road to the west and the Cecily Street Main Gate to the East

Native perimeter tree planting to sports field

Potential Horticultural/Agricultural Uses

CALLAN PARK MASTER PLAN

BIODIVERSITY



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Table 4.2 Biodiversity actions in Callan Park

No.	Action	Timing	Respons- -ibility	Performance measure	Method of measurement
1.1	Undertake full tree assessment and management study and plan for the entire site.	Initiation	PA	Prepare a management plan for all trees within Callan Park.	Tree Management Plan prepared and implemented.
1.2	Undertake a terrestrial and aquatic habitat assessment.	Initiation	PA	Definition and assessment of all habitats within Callan Park and along the foreshore. Preparation of a management strategy for the long term enhancements of these assets.	Terrestrial and aquatic habitat assessment prepared. Management strategy for habitats prepared.
1.3	Develop a GPS enabled smart phone application providing botanic data across Callan Park.	Initiation	PA	Tree survey used to create a database of all tree and significant shrub species within Callan Park that can be developed into a cross platform smartphone application.	Database of trees and shrubs established. Smartphone application in operation.
1.4	Relocate the colony of cats living within the Convalescence Cottages.	Initiation	PA	No non-domestic or feral cats remaining on-site.	Observations. Reports from site users.
1.5	Plant native perimeter trees to the Balmain Road sports field.	Short term	PA	Undertake contamination and soil study. Refer to tree survey to establish implementation strategy. Native perimeter planting around Balmain Road sports field.	Observations.
1.6	Regenerate bushland around Glover Street Oval. Align planting set back to follow outline of the sporting fields.	Short term	PA	Undertake contamination and soil study. Bushland regenerated.	Bush regeneration report.
1.7	Construct a glass house for use by bush care and regeneration groups to use for propagation of native providence stock.	Short term	CS	Glasshouse constructed.	Use of glasshouse by bush care and regeneration groups for propagation of native

No.	Action	Timing	Responsibility	Performance measure	Method of measurement
					providence stock.
1.8	Remove trees in poplar avenue. Planting to allow an informal transition between Kirkbride and Callan Point.	Short term	PA	Trees in poplar avenue removed.	Consistent with Conservation Management Plan Policy.
1.9	Remove invasive species to the north and west of the Convalescence Cottages to open views to and from Iron Cove. Replacement planting with tall trunked <i>Eucalyptus</i> .	Medium term	PA	Invasive species removed from north and west of the Convalescence Cottages. Views to and from Iron Cove are opened.	Observations. Positive feedback from site users.
1.10	Establish an ecological corridor between bush regeneration areas to the east and west of Callan Park. Plant native providence species providing habitat for resident and migratory fauna.	Medium term	PA	Undertake contamination and soil study Use the ecological assessment to develop a strategy and management plan for the corridor. Corridor established with native providence species.	Fauna survey and observations show use of the ecological corridor by resident and migratory fauna.
1.11	Collect local provident seeds to ensure all new planting will be from local native stock, except in the heritage gardens in the Broughton Hall and Pleasure Gardens; and in the Area for horticulture or agriculture.	ongoing	PA	A stock of all native species on Callan Park. All new planting is from local native stock, except in the heritage gardens in the Broughton Hall and Pleasure Gardens; and in the Area for horticulture or agriculture.	Seed bank in operation. Systems to ensure all new planting is from local native stock, except in the heritage gardens in the Broughton Hall and Pleasure Gardens; and in the Area for horticulture or agriculture.
1.12	Limit the new planting of exotic species to replace dying and damaged trees that are part of the heritage gardens in the Broughton Hall and Pleasure Gardens; and in the Area for horticulture or agriculture.	ongoing	PA	New planting of exotic species is limited to heritage gardens and the Area for horticulture or agriculture.	Systems to ensure all new planting is from local native stock, except in the heritage gardens in the Broughton Hall and Pleasure Gardens; and in

No.	Action	Timing	Responsibility	Performance measure	Method of measurement
					the Area for horticulture or agriculture.
1.13	Regenerate bushland area extending from Callan Point to the Manning Street access. Plant with native provident species.	ongoing	CS	Undertake contamination and soil study. Establish responsibilities for the management of the expanded bush care area. Use the ecological assessment to develop a strategy and management plan for the corridor. Regeneration of bushland with native provident species.	Flora and fauna survey. Regeneration consistent with management plan for the corridor.
1.14	Regenerate bushland to screen electrical substation.	ongoing	CS	Undertake contamination and soil study. Develop strategy in consultation with Energy Australia.	Energy Australia approval for bush regeneration. Observations of level of screening of electrical substation.
1.15	Remove self-seeded trees.	ongoing	PA	Refer to tree survey to establish implementation strategy.	Removal of self-seeded trees consistent with Conservation Management Plan Policy.
1.16	Remove avenue and row plantings.	ongoing	PA	Refer to tree survey to establish implementation strategy. Avenue and row plantings removed.	Removal consistent with Conservation Management Plan Policy.
1.17	Plant Port Jackson Figs as an avenue along Balmain Street frontage between the junction with Wharf Road to the west and the Cecily Street Main Gate to the east.	ongoing	PA	Refer to tree survey to establish implementation strategy. Avenue of Port Jackson figs established along Balmain Road between the junction with Wharf Road to the west and the Cecily Street Main Gate to the east.	Observations.