

Timeframe	Key Performance Indicator	Preferred Trend	Source
Annual	Density of weeds per area – expressed as a percentage. (existing indicator)	Decrease	Data obtained from site investigations of transects positioned within natural areas. It should be noted that a new methodology for the measurement of the density of weeds within natural areas was established in 2014/15. Management Plans developed prior to this time will require the establishment of a new baseline year.
	Waste present in natural areas – items per hectare (existing indicator)	Decrease	This data is collected on an annual basis from ten of the City's reserves.
	Percentage of natural areas protected within City reserves (existing indicator)	Increase	Areas (hectares) included in the City's proposed Conservation Reserves within the District/Local Planning Scheme (previously Schedule 5 and City of Joondalup Bush Forever sites.
Biennial (every two years)	Overall change in vegetation vigour (condition) per area –expressed as an increase or decrease in the Vegetation Condition Index (VCI). (new indicator)	Increase	Source- Data obtained from analysis of remote multi spectral imagery. The imagery will be obtained every two years.
Biennial (every two years)	Canopy Cover – expressed as a percentage per natural area (new indicator)	Increase	Source- Data obtained from analysis of remote multi spectral imagery. The imagery will be obtained every two years.
Five Yearly	Vegetation condition per area – expressed using the Keighery Scale* of vegetation condition, expressed as a percentage for each classification (pristine to degraded). (new indicator)	Increase	Data obtained through on site floristic survey undertaken to inform the review of the Management Plan. Review to be undertaken five years from time that Management Plan was adopted.

Table 1: Proposed Key Performance Indicators for City of Joondalup Natural Area Management Plan areas.

* The Keighery Scale is a tool used to rate the condition of vegetation.

Key Performance Indicator	Source	Cost	New/Existing Cost?
<p>Annual Density of weeds per area – expressed as a percentage.</p> <p>Existing Indicator</p>	<p>Data obtained from site investigations of transects positioned within natural areas. It should be noted that a new methodology for the measurement of the density of weeds within natural was established in 2014/15. Management Plans developed prior to this time will require the establishment of a new baseline year.</p>	<p>Operational- data collected within existing City operations.</p>	<p>Existing.</p>
<p>Annual Waste present in natural areas – items per hectare</p> <p>Existing Indicator</p>	<p>This data is collected on an annual basis from ten of the City's reserves.</p>	<p>Operational- data collected within existing City operations.</p>	<p>Existing.</p>
<p>Annual Percentage of natural areas protected within City reserves (existing indicator)</p>	<p>Areas (hectares) included in the City's proposed Conservation Reserves within the District/Local Planning Scheme (previously Schedule 5 and City of Joondalup Bush Forever sites).</p>	<p>Operational- data collected within existing City operations.</p>	<p>Existing.</p>
<p>Biennial (every two years) Overall change in vegetation vigour (condition) per area – expressed as an increase or decrease in the Vegetation Condition Index (VCI).</p> <p>Canopy Cover – expressed as a percentage per natural area (new indicator)</p>	<p>Source- Data obtained from analysis of remote multi spectral imagery. The imagery is currently obtained every two years.</p>	<p>\$30,000 for obtaining remote multi spectral imagery. Subject to annual budget approval process.</p> <p>\$6,500 for analysis of remote multi spectral imagery. Budget subject to annual budget approval process.</p>	<p>Existing- endorsed through adoption of the City's Pathogen Management Plan.</p> <p>New cost.</p>

Costs Associated with Key Performance Indicators

<p>Five Yearly Vegetation condition per area – expressed using the Keighery Scale* of vegetation condition, expressed as a percentage for each classification (pristine to degraded). (new indicator)</p>	<p>Data obtained through on site floristic survey undertaken to inform the review of the Management Plan, service provided by specialised consultants. Review to be undertaken five years from time that Management Plan was adopted.</p>	<p>From \$20,000 to \$50,000 depending on size of the natural area and scope of the Flora, Fauna and Fungi Survey. Subject to annual budget approval process.</p>	<p>Existing- endorsed through adoption of individual Natural Area Management Plans.</p>
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