

# Offsets Assessment Guide

For use in determining offsets under the *Environment Protection and Biodiversity Conservation Act 1999*  
2 October 2012

This guide relies on Macros being enabled in your browser.

| Matter of National Environmental Significance   |                          |
|---|--------------------------|
| Name  | Carnaby's Black Cockatoo |
| EPBC Act status   | Endangered               |
| Annual probability of extinction<br><small>Based on IUCN category definitions</small> | 1.2%                     |

| Key to Cell Colours         |
|-----------------------------|
| User input required         |
| Drop-down list              |
| Calculated output           |
| Not applicable to attribute |

| Impact calculator   |                             |  |                         |       |                   |  |
|---|-----------------------------|--|-------------------------|-------|-------------------|--|
| Protected matter attributes   | Attribute relevant to case? | Description  | Quantum of impact       |       | Units             | Information source   |
| <i>Ecological communities</i>   |                             |  |                         |       |                   |  |
| Area of community   | No                          |  | Area                    |       |                   |  |
|   |                             |  | Quality                 |       |                   |  |
|   |                             |  | Total quantum of impact | 0.00  |                   |  |
| <i>Threatened species habitat</i>   |                             |  |                         |       |                   |  |
| Area of habitat   | Yes                         | Carnaby's Black Cockatoo Foraging Habitat<br>Lwo to Moderate quality | Area                    | 32.2  | Hectares          | Environmental Review and Black Cockatoo Refined Assessment (AECOM, 2025) |
|   |                             |  | Quality                 | 6     | Scale 0-10        |  |
|   |                             |  | Total quantum of impact | 19.32 | Adjusted hectares |  |
| <i>Threatened species</i>   |                             |  |                         |       |                   |  |
| <b>Protected matter attributes</b>  |                             |  |                         |       |                   |  |
| <b>Number of features</b><br>e.g. Nest hollows, habitat trees                       |                             |  |                         |       |                   |  |
| <b>Condition of habitat</b><br>Change in habitat condition, but no change in extent |                             |  |                         |       |                   |  |
| <b>Birth rate</b><br>e.g. Change in nest success                                    |                             |  |                         |       |                   |  |
| <b>Mortality rate</b><br>e.g. Change in number of road kills per year               |                             |  |                         |       |                   |  |
| <b>Number of individuals</b><br>e.g. Individual plants/animals                      |                             |  |                         |       |                   |  |

| Offset calculator   |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
|---|-----------------------------|-------------------------|-------------------|-----------------|---|-------------------------------|---|--|---|--------------------------|--|---------------------------------------|--------------------|--|--------------------------|--------------------|---------------|------|-------------------|------|--------------------|--------|--|----|-----------------|--|--------------------|---|
| Protected matter attributes   | Attribute relevant to case? | Total quantum of impact | Units             | Proposed offset | Time horizon (years)                            | Start area and quality        | Future area and quality without offset        | Future area and quality with offset        | Raw gain                                      | Confidence in result (%) | Adjusted gain                              | Net present value (adjusted hectares) | % of impact offset | Minimum (90%) direct offset requirement met? | Cost (\$ total)          | Information source |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <i>Ecological Communities</i>   |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| Area of community   | No                          |                         |                   |                 | Risk-related time horizon (max. 20 years)       | Start area (hectares)         | Risk of loss (%) without offset               | Risk of loss (%) with offset               |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
|   |                             |                         |                   |                 | Future area without offset (adjusted hectares)  | 0.0                           | Future area with offset (adjusted hectares)   | 0.0  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
|   |                             |                         |                   |                 | Time until ecological benefit                   | Start quality (scale of 0-10) | Future quality without offset (scale of 0-10) | Future quality with offset (scale of 0-10) |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <i>Threatened species habitat</i>   |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| Area of habitat   | Yes                         | 19.32                   | Adjusted hectares | Orange Springs  | Time over which loss is averted (max. 20 years) | 20                            | Start area (hectares)                         | 38.46                                      | Risk of loss (%) without offset               | 0%                       | Risk of loss (%) with offset               | 0%                                    | Raw gain           | 0.00   | Confidence in result (%) | 100%               | Adjusted gain | 0.00 | Net present value | 0.00 | % of impact offset | 84.81% | Minimum (90%) direct offset requirement met? | No | Cost (\$ total) |  | Information source | As per Environmental Review Document and supporting surveys |
|   |                             |                         |                   |                 | Future area without offset (adjusted hectares)  | 38.5                          | Future area with offset (adjusted hectares)   | 38.5                                       |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
|   |                             |                         |                   |                 | Time until ecological benefit                   | 10                            | Start quality (scale of 0-10)                 | 0  | Future quality without offset (scale of 0-10) | 0                        | Future quality with offset (scale of 0-10) | 6                                     | Raw gain           | 6.00   | Confidence in result (%) | 80%                | Adjusted gain | 4.80 | Net present value | 4.26 |                    |        |  |    |                 |  |                    |   |
| <i>Threatened species</i>   |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <b>Protected matter attributes</b>  |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <b>Number of features</b><br>e.g. Nest hollows, habitat trees                       |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <b>Condition of habitat</b><br>Change in habitat condition, but no change in extent |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <b>Birth rate</b><br>e.g. Change in nest success                                    |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <b>Mortality rate</b><br>e.g. Change in number of road kills per year               |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |
| <b>Number of individuals</b><br>e.g. Individual plants/animals                      |                             |                         |                   |                 |   |                               |   |  |   |                          |  |                                       |                    |  |                          |                    |               |      |                   |      |                    |        |  |    |                 |  |                    |   |

| Summary                     |                   |                             |                    |                         |                    |                                  |                |
|-----------------------------|-------------------|-----------------------------|--------------------|-------------------------|--------------------|----------------------------------|----------------|
| Protected matter attributes | Quantum of impact | Net present value of offset | % of impact offset | Direct offset adequate? | Cost (\$)          |                                  |                |
|                             |                   |                             |                    |                         | Direct offset (\$) | Other compensatory measures (\$) | Total (\$)     |
| Birth rate                  | 0                 |                             |                    |                         | \$0.00             |                                  | \$0.00         |
| Mortality rate              | 0                 |                             |                    |                         | \$0.00             |                                  | \$0.00         |
| Number of individuals       | 0                 |                             |                    |                         | \$0.00             |                                  | \$0.00         |
| Number of features          | 0                 |                             |                    |                         | \$0.00             |                                  | \$0.00         |
| Condition of habitat        | 0                 |                             |                    |                         | \$0.00             |                                  | \$0.00         |
| Area of habitat             | 19.32             | 16.38                       | 84.81%             | No                      | \$0.00             | #DIV/0!                          | #DIV/0!        |
| Area of community           | 0                 |                             |                    |                         | \$0.00             |                                  | \$0.00         |
|                             |                   |                             |                    |                         | <b>\$0.00</b>      | <b>#DIV/0!</b>                   | <b>#DIV/0!</b> |