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25 June 2019

Ethos Urban c/o CBRE Project Management Lvl 21, 363 George Street Sydney NSW 2000

Attention: Hamish Rolls, Project Manager, CBRE (Hamish.Rolls@cbre.com.au)

Re: BDAR for NMH Stage 2 SSI Application 9775 - FINAL

Dear Hamish

#### **Background**

Health Infrastructure (HI) have received Stage 1 concept approval under the *Environmental Planning and Assessment Act 1979* (EP&A Act) for the New Maitland Hospital (NMH) State Significant Infrastructure (SSI) application. HI have subsequently received the SEARs for the NMH Stage 2 works (detailed design, construction and operation) from the NSW Department of Planning and Environment (DPE). The Stage 2 SEARs notes that biodiversity impacts related to the proposed development are to be assessed in accordance with the Biodiversity Assessment Method (BAM) and documented in a Biodiversity Development Assessment Report (BDAR).

HI have subsequently commissioned Sclerophyll Flora Surveys and Research Pty Ltd (Sclerophyll) to prepare a BDAR to support the Stage 2 SSI application. This letter report thus serves as the Stage 2 NMH BDAR.

### **Environmental Setting**

The Stage 2 NMH development site boundary comprises Lot 7314 and Part Lot 401 DP 755237 contained within a portion of the former PGH/CSR brickworks site known as the Metford Triangle. The development site is 19.73 hectares in area and consists of a construction site with extensive earthworks associated with the Stage 1 NMH early works, a narrow strip of roadside open forest along Metford Road (south of the main hospital entrance) and adjoining open forest along the site's south-western and southern boundaries.

The development site is situated within the North Coast botanical subdivision (Anderson 1961), the Sydney Basin Bioregion (Thackway and Cresswell 1995), Newcastle Coastal Ramp Mitchell Landscape and Maitland City Council LGA.

The study area is mapped as being underlain with the Beresfield soil landscape group, comprising Permianaged siltstone, mudstone and sandstone-derived silts, clays and sands. This regional mapping is generally consistent with site observations of clay topsoils and siltstone-mudstone rock outcropping.

The western portion of the development site drains to the west to Two-Mile Creek whilst the central and eastern portion drains to the east to an unnamed tributary of Three Mile Gully, which, in turn, all flow



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northward to the Morpeth and Tenambit wetlands on the northern side of the main northern railway line, ultimately discharging into the Hunter River.

Land use surrounding the study area comprises the remaining portion of the former quarry and brickworks site (Metford Triangle) to the east and immediate north; transmission line easement and Metford residential suburb to the south; Metford light industrial area and Fieldsend Oval to the west; main northern railway line and Tenambit and Morpeth wetlands to the distant north.

Site context and development site plans are shown in Figure 1 and Figure 2, respectively.

#### **Description of the Proposal**

A summary description of the Stage 2 NMH SSI proposal is provided below:

- Construction and operation of a new 7 storey Acute Services Building, including;
  - Emergency services;
  - Medical, surgical, paediatric and maternity services;
  - Critical care services for adults and babies, including a special care nursery;
  - Operating theatres, delivery suites and assessment rooms;
  - Palliative care and rehabilitation services;
  - Mental health services;
  - Satellite renal dialysis;
  - A new chemotherapy service;
  - Oral health service;
  - A range of ambulatory care and outpatient clinics.
- Internal roadways and car parking for staff, patients and visitors;
- Signage;
- Site landscaping and open space improvements;
- Tree removal; and
- Utility and services connection and amplifications works.

### Streamlined Assessment Module (Small area development)

Appendix 2 of the BAM allows proposals to use the 'streamlined assessment module-small area development' if it meets the following 2 criteria:

• The development site is not mapped on the State-wide biodiversity values map (BV map); and



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• Native vegetation clearing associated with the proposal falls below the maximum clearing thresholds prescribed for minimum lot sizes as listed in Table 13 Appendix 2 of the BAM.

Results from a desktop review revealed that the proposed Stage 2 clearing extent (0.76 ha) falls well below the maximum clearing threshold of 5 ha for the 40ha minimum lot size mapped for the 2 development site lots, as ascertained from Maitland Council LEP 2011 lot size maps. The vegetation proposed for removal as part of the Stage 2 SSI is shown in **Figure 3**.

The Biodiversity Values Map and Threshold Tool (BMAT) (<a href="https://www.lmbc.nsw.gov.au/Maps/index.html?viewer=BOSETMap">https://www.lmbc.nsw.gov.au/Maps/index.html?viewer=BOSETMap</a>) was also reviewed to confirm that the development site is not mapped on the biodiversity values map.

Based on the results of the desktop review outlined above, the streamlined assessment module-small area development would apply to the Stage 2 NMH proposal.

#### **BAM Field Survey Methods**

Two BAM field plots (0.1 ha in area) were undertaken within the stands of native vegetation remaining in the Stage 2 development site by Sclerophyll botanist Isaac Mamott on the 6th and 14 June 2019 in fine conditions. Plot data recorded during the field survey comprised species composition, foliage cover values as well as structural/functional attributes such as tree stem size classes, litter cover, hollows, length of fallen logs and tree regeneration. Survey effort was in accordance with the minimum plot requirements listed in Table 4 of the BAM.

Sclerophyll has relied on previous ecological investigations undertaken across the development site (and greater Metford triangle site) by General Flora and Fauna in the spring and summer of 2014 (General Flora and Fauna 2014) to satisfy the BAM Threatened species survey requirements for the Stage 2 NMH proposal. The BAM allows the use of previous investigations for current assessments as long as the previous studies were undertaken within 5 years from the current proposal. It is considered that the General Flora and Fauna 2014 investigations fall within the 5 year prescribed timeframe for the current Stage 2 proposal.

The suite of baseline and targeted terrestrial flora and fauna surveys undertaken by General Flora and Fauna (2014) on the Metford triangle site comprised:

- 9 full floristic botanical plots;
- 8 straight line botanical transects;
- Small mammal trapping (4 trap lines with each trap line comprising Elliott A/Bs, cage traps and hair tubes);
- Anabat microbat detection;
- Spotlighting;
- Diurnal bird surveys;
- Call playbacks; and
- Active searching for reptiles.



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A number of fauna survey sites employed by General Flora and Fauna (2014) were situated within the Stage 2 development site and project influence area. The reader is referred to the Stage 1 NMH BAR for a complete description of targeted Threatened survey methodologies employed (a full reproduction of the General Flora and Fauna 2014 report is provided as an Appendix in the Stage 1 BAR).

### **BAM Field Survey Results**

One (1) Plant Community Type (PCT) was recorded in the development site, this being PCT ID 1592 Lower Hunter Spotted Gum-Red Ironbark-Grey Gum grass/shrub open forest of the lower Hunter. PCT 1592 is considered to be analogous to the Lower Hunter Spotted Gum Ironbark Forest in the Sydney Basin and NSW North Coast Bioregions EEC, listed under Schedule 2 of the *Biodiversity Conservation Act* 2016 (BC Act). The PCT recorded within the development site generally comprised relatively young regrowth cohorts and was subject to high to very high levels of weed cover likely due to edge effects typically associated with an urban remnant. A PCT map is provided as **Figure 3**.

It is noted that a narrow ephemeral drainage line was recorded bisecting a small patch of PCT 1592 on Lot 401 within the Stage 2 development site. Portions of the drainage line held standing water and supported a dense narrow band of native aquatic emergents, *Phragmites australis* and *Typha orientalis*. This assemblage of native aquatics along the drainage line would typically be mapped as PCT 1071 Coastal freshwater wetlands. However, the section of drainage line within the Stage 2 project influence area was considered too small an area to be mapped at the scale employed for the BDAR (3 metres wide x 15 metres in length) and was thus incorporated into PCT 1592 with which it adjoins.

No Threatened flora species were recorded on the development site by General Flora and Fauna (2014) nor by Sclerophyll during both the conduct of BBAM/FBA plots associated with the Stage 1 BAR and Stage 2 BAM plots.

A total of 7 Threatened fauna species listed under the BC Act were recorded by General Flora and Fauna (2014) on the greater Metford triangle site, these being:

- Little Lorikeet;
- Squirrel Glider;
- Little Bentwing Bat;
- Large Bentwing Bat;
- Greater Broad Nosed Bat;
- Large footed Myotis (also known as Southern Myotis); and
- Grey headed Flying Fox.

A total of 2 of these 7 species (Little Lorikeet, Squirrel Glider) were recorded by General Flora and Fauna (2014) within Spotted Gum - Ironbark Forest habitat on Lot 7314 within the Stage 2 NMH development site. General Flora and Fauna (2014) noted that the habitats recorded on the greater Metford triangle site may provide potential foraging and denning habitat for the species. A map showing the locations of the Threatened species recorded by General Flora and Fauna (2014) on the development site is provided as **Figure 4**.



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#### Data Entered Into the BAM-C

The following data was entered into the BAM Calculator (BAM-C) for the Stage 2 NMH proposal:

- Assessment Type Part 5 (small area development);
- IBRA Region Sydney Basin;
- IBRA Sub-Region Hunter;
- <u>% Native Vegetation within 1500m buffer</u> 23 (refer **Figure 5**);
- <u>Vegetation zone 1</u> PCT 1592 Medium (full clearing of 0.43 ha);
- <u>Vegetation zone 2</u> PCT 1592 Poor (Management Zone 1 partial clearing of 0.21 ha to reflect proposed underscrubbing and canopy retention; Management Zone 2 full clearing of 0.12 ha). Future vegetation integrity scores for Management Zone 1 were manually increased from '0' to match the current vegetation integrity score values for tree composition and structure in order to reflect canopy retention proposed for MZ 1. Plot data for the 2 vegetation zones was entered into the BAM-C and is shown on the completed field data sheets provided as **Attachment B**;
- Confirmed Predicted Threatened Species (Ecosystem credit species) 26 Threatened fauna species were confirmed in the BAM-C as predicted ecosystem credit species based on the presence of suitable site habitats (dry sclerophyll open forest). Only 1 of the 27 predicted ecosystem credit species was discounted and not confirmed in the BAM-C for the Stage 2 NMH proposal, this being the Koala, as there are no known Koala populations in the lower Hunter in the vicinity of the proposed development site;
- Confirmed Candidate Threatened Species (Species credit species) A total of 4 Threatened flora species were confirmed in the BAM-C as candidate Threatened flora species credit species for the proposal, these being Callistemon linearifolius, Grevillea parviflora subsp. parviflora, Persoonia pauciflora and Rutidosis heterogama. These 4 species are most closely associated with Lower Hunter Spotted Gum Ironbark Forest (LHSGIF) habitats. A total of 3 Threatened fauna species credit species were confirmed as candidate species credit species in the BAM-C based on the presence of dry sclerophyll open forest habitats present on the Stage 2 development site, these being the Bush Stone Curlew, Green and Golden Bell Frog and Squirrel Glider. It is noted that both the Little and Eastern (Large) Bent-wing Bats as well as the Southern Myotis (microbat) were not confirmed as candidate Threatened fauna species in the BAM-C for the Stage 2 proposal even though General Flora and Fauna (2014) recorded these 3 species within the greater Metford triangle (albeit outside the Stage 2 proposed development site). Both the bent wing bats are dual ecosystem credit/species credit species under the BAM and are only considered as a species credit species if breeding habitat (ie. maternity roost) is present. General Flora and Fauna (2014) did not identify any maternity roosts within the greater Metford triangle site and thus both bat species were considered as ecosystem credit species for the purposes of the Stage 2 NMH proposal. The Southern Myotis typically requires the presence of large water bodies (large creeks, rivers, ponds) for foraging habitat and was likely exploiting the large man made (stormwater) ponds that were previously present on the Stage 2 development site.
- <u>Habitat Survey</u> Based on the results of General Flora and Fauna (2014), none of the confirmed candidate Threatened flora species was entered into the BAM-C as being present on the development site as ascertained from targeted surveys. Based on the results of General Flora and Fauna (2014), only 1 of the 4 confirmed candidate Threatened fauna species was entered into the BAM-C as being present on the Stage 2 development site as ascertained from targeted surveys, this being the Squirrel Glider. A species polygon habitat map was prepared for the Squirrel Glider



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(refer **Figure 6**), denoting vegetation zones 1 and 2 as suitable habitat for the species within the Stage 2 development site. An area of species impact totalling 0.55 ha was entered into the BAM-C for the Squirrel Glider, reflecting the proposed removal of vegetation zone 1 (0.43 ha of full clearing) and vegetation zone 2 (Management Zone 2- 0.12 ha of full clearing). The proposed partial removal of vegetation zone 2 (Management Zone 1 - 0.21 ha) was excluded from the Squirrel Glider impact habitat area value entered into the BAM-C due to the proposed canopy retention.

#### **BAM-C Credit Results**

A series of biodiversity credit and credit payment reports was generated by the BAM-C for the Stage 2 NMH proposal. A summary of the key report results is provided below:

- Ecosystem Credit requirement -23 credits = \$68,900.44 payment into the BCF; and
- Species Credit requirement (Squirrel Glider) -17 credits = \$10,122.70 payment into the BCF.

The biodiversity credit reports generated by the BAM-C for the Stage 2 proposal are provided as **Attachment C**.

A Biodiversity Offset Strategy (BOS) for the Stage 2 NMH proposal would be prepared following project approval to identify the preferred mechanism by which HI will meet its offset obligations.

#### **Impact Assessment**

The Stage 2 NMH proposal will result in the removal of 0.76 hectares of PCT 1592 (LHSGIF) situated within the Stage 2 Project Influence Area. This is considered to be an over-estimate of the actual clearing proposed as 0.21 ha of this 0.76 ha total clearing area is proposed only for understorey clearing (canopy would be retained) and much of the understorey in this area is heavily degraded with very high weed cover. The 0.21 ha of understorey clearing is proposed for the narrow strip of roadside woodland/open forest fringing Metford Road south of the main hospital entrance.

The Stage 2 proposal footprint redesign (relative to the Stage 1 approved concept design) has enabled the retention of 1.9 ha of LHSGIF (PCT 1592) habitat on Lot 7314 that was approved for removal in Stage 1. Hence, the Stage 2 proposal has met the BAM principle of 'avoid and minimise' in relation to biodiversity impacts.

The LHSGIF EEC proposed for Stage 2 removal forms part of and is contiguous (albeit tenuously) with a larger LHSGIF remnant that extends to the east following the Ausgrid transmission line easement until its intersection with the main northern railway line (commonly referred to as the 'Metford triangle remnant'). The Metford triangle LHSGIF remnant has an areal extent of approximately 13 hectares and would be subject to further minor fragmentation impacts as a result of Stage 2 clearing proposed, although such negligible clearing would not be expected to significantly impact the wider remnant's overall integrity and viability to the point where it would be at risk of localised extinction.

Given the extent of available forested habitat in the wider locality for the more mobile subject species that have relatively large foraging ranges (eg. bats, woodland birds), the direct loss of 0.76 ha of disturbed



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LHSGIF dry sclerophyll forest habitat is not expected to result in significant fauna impact. These highly mobile subject species would not be expected to be exclusively reliant on site habitats for their life cycle requirements and would be expected to utilise extensive forested tracts south of the site at Four Mile Creek (south-west of the New England Highway) as well as additional extensive tracts of bushland further south to Mt Sugarloaf Reserve and Awaba State Forest and west to Kurri Kurri. It is thought that the New England Highway and main northern railway line form a local movement barrier for the Squirrel Glider in the immediate locality of the development site and that the species population is isolated both from smaller woodland stands surrounding the Tenambit and Morpeth wetlands to the north and from the larger tracts of forested lands to the south of the New England Highway. The Squirrel Glider was recorded in LHSGIF habitat on Lot 7314 (within the Stage 2 Project Influence Area) and as such is likely reliant on habitats within the greater Metford triangle for its life cycle requirements (i.e. foraging, denning, movement) given the likely isolation of its meta-population in the lower Hunter valley. The relatively minor vegetation clearing works proposed for Stage 2 NMH (along the far western boundary of the Metford triangle remnant) would not be expected to contribute to further habitat isolation nor movement barrier impacts for less mobile subject species such as the Squirrel Glider.

Potential indirect impacts on retained fauna (dry sclerophyll) habitats on Lot 7314 during construction activity include daytime noise and vibration and night time light spill. Noise, vibration and light spill can have an impact on a suite of protected and Threatened fauna such as roosting microbats, owls and denning arboreals such as the Squirrel Glider (recorded on Lot 7314). The subject site lies within an urban area of the lower Hunter valley and it is considered that the assemblage of resident and transient fauna utilising site habitats would be habitualised to typical urban daytime ambient noise and vibration levels from Metford Road, the industrial area on the western side of Metford Rd (south of fieldsend oval) and the long-term mining activity and more recent remediation activity that has been undertaken on part of the Stage 2 development site.

The Stage 2 NMH proposal will not impact upon any habitats supporting karst, cliffs or other significant geological features nor would it impact upon habitats containing significant rock outcropping or manmade artificial Threatened fauna habitats. Hence, there are no 'prescribed' impacts expected as a result of the Stage 2 NMH proposal.

An assessment under SEPP 44 - Koala Habitat Protection and Draft SEPP (Environment) is provided as **Attachment D**. The SEPP 44 assessment concluded that the Stage 2 development site is not considered core Koala habitat and that the preparation of a site specific Koala Management Plan is not required.

### **Mitigation Measures**

A Biodiversity Management Plan (BMP) is to be incorporated in the project Construction Environmental Management Plan (CEMP) to include detail of the mitigation measures outlined below. The BMP would aim to reduce the potential impacts of the proposal on biodiversity through minimising the extent of clearing, maintaining key habitat and also reducing the potential injury to fauna during and after the clearing works. The BMP will also include a map showing specific areas where particular measures are to be implemented.

The following protocol would be undertaken as part of the clearing activities:



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- 1. Clearing boundaries shall be pegged out by a registered surveyor and suitably demarcated (eg metal stake and high vis plastic mesh fencing) prior to vegetation clearing activity.
- 2. All contractors conducting clearing, earth works or construction activities within Lot 7314 must be informed of the ecological value of the retained forested remnants and particularly the restrictions to the clearing of vegetation outside the 'exclusion fencing'. No storage of materials, vehicle parking or other disturbance would be undertaken outside the exclusion fencing into retained bushland habitats.
- 3. A site induction must be undertaken so as to clearly inform personnel undertaking clearing operations the relevance of any marked items (e.g. hollow bearing trees requiring ecological supervision, clearing boundaries) and identify their responsibilities. A site induction will need to be signed by all relevant personnel involved with the clearing operations, noting they have understood ecological conduct requirements.
- 4. Trees would be felled away from the retained forested remnants back into the proposed development footprint.

The removal of any tagged and mapped hollow bearing trees (HBTs) must be undertaken with the presence of a suitably qualified and experienced fauna ecologist and the cavities of any hollow bearing trees will need to be checked for inhabiting fauna upon felling. Any injured fauna should be captured where possible and taken to the local wildlife carer. Once rehabilitation has been achieved (if possible), the individual should be released into retained habitats adjoining the capture site, and if required, into shelter sites appropriate for that species (*i.e.* nest boxes). The relevance of the marked HBTs and requirements for ecological clearing supervision must be communicated to the supervisor responsible for the clearing contractors.

It is recommended that night lighting be installed as far from the retained bushland habitats on Lot 7314 as possible and that such lighting be directed away from such habitats to minimise nocturnal light spill.

Yours faithfully

Isaac Mamott

Isaac Mamott
Director, Principal Botanist
BAM Assessor (BAAS18008)
BBAM Assessor (0081)

Attachment A BDAR Figures

Attachment B Completed BAM field data sheets
Attachment C BAM-C Biodiversity Credit Reports

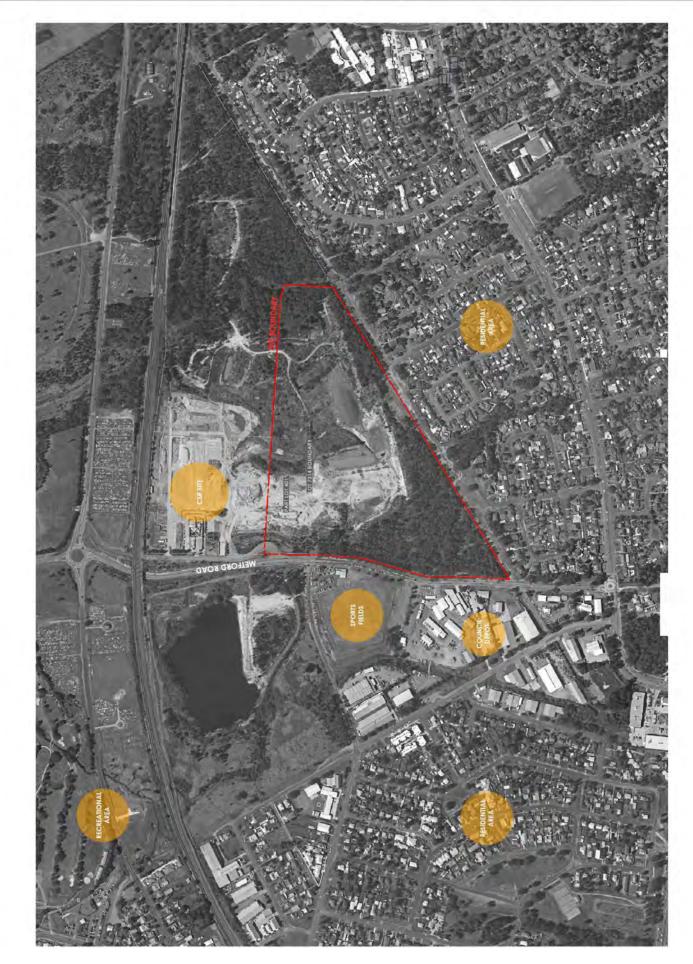
Attachment D SEPP Assessments

#### Attachment A BDAR Figures



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FIGURE 2 - DEVELOPMENT SITE PLAN

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NEW MATILAND HOSPITAL Metford Road, Metford

FIGURE 3 - VEGETATION REMOVAL PLAN





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INTERPRETATION

MOUNTAIN

NSW Infrastructure

NEW MATLAND HOSPITAL Metford Road, Metford

FIGURE 6 -SQUIRREL GLIDER SPECIES POLYGON MAP

# Attachment B Completed BAM Field Data Sheets

#### BAM Site - Field Survey Form Site Sheet no: Survey Name Plot Identifier Recorders NHH Stage 2 Date BAMPLOT (T) IM Zone Datum 1-6 **IBRA** region Photo# Zone ID MGA 56 GDA94 Northing 374 496 Easting 20x 201 Orientation of midline **Dimensions** 369167 To. Iha S SIN from the 0 m point. Confidence: **Vegetation Class** hunter - marlegy forests Sclerophyl H M L Confidence: **Plant Community Type** EEC: (H M Record easting and northing from the plot marker. If applicable, orient picket so that perforated rib points along direction of midline. ower hunter so Dimensions (Shape) of 0.04 ha base plot inside 0.1 ha FA plot should be identified, magnetic bearing taken along midline. om ironbarte BAM Attribute (20 x 50 m plot) **BAM Attribute** # Tree Stems Count Sum values Record number of (400 m<sup>2</sup> plot) Non Euc Hollows† living eucalypt\* (Euc\*) and living Trees 3 80 + large trees for Euc\* & Non Euc native non-eucalypt cm (Non Euc) stems Shrubs 12 separately 50 - 79 cm 12 Count of Grasses etc. \* includes all species Native of Eucalyptus, Richness Forbs 10 30 - 49 cm Corvmbia. Angophora, Lophostemon and Ferns 20 - 29 cm Syncaroia 7 Other †Record total 10 - 19 cm number of stems by 53 Trees size class with hollows (including 5 - 9 cm n/a Sum of Shrubs 10.3 dead stems/trees) Cover 53 of native Grasses etc. < 5 cm n/a vascular Forbs plants by 14.4 total Length of logs (m) 6 growth (≥10 cm diameter, >50 cm form group Ferns 1.0 in length) 3.9 Other Counts must apply to each size class when the number of living tree stems within the size class is ≤ 10. Estimates can be used when the number of living tree stems within a class is > 10. Estimates should draw from the number series: 10, 20, 30..., 100, 200, 300 High Threat Weed cover 31,2 For a multi-stemmed tree, only the largest living stem is included in the count/estimate. For hollows count only the presence of a stem containing hollows, not the count of hollows in that stem. Only count as 1 stem per tree where tree is multi-stemmed. The hollow-bearing stem may be a dead stem. BAM Attribute (1 x 1 m plots) Litter cover (%) Bare ground cover (%) Cryptogam cover (%) Rock cover (%) 40 5 50 50 Subplot score (% in each) 30 2 3 1 15 10 35 Average of the 5 subplots 1.6 3 Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots located on alternate sides and 5 m from the plot midline at the locations 5, 15, 25, 35, and 45 m along the midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Within these 1 m x 1 m plots assessors may also record the cover of rock, bare ground and cryptogam soil crusts. Collection of these data is optional - the data do not currently contribute to assessment scores, they hold potential value for future vegetation integrity assessment attributes and benchmarks, and for enhancing PCT description Physiography + site features that may help in determining PCT and Management Zone (optional) Morphological Landform Landform Microrelief low Type Element Pattern Soil Surface Soil Soil Lithology -dstore clay - heavy. Texture Colour Depth Distance to nearest 0-1°; flat. Slope Aspect 0 Site Drainage water and type Severity Age Observational evidence: **Plot Disturbance** Clearing (inc. logging) Cultivation (inc. pasture) Soil erosion Firewood / CWD removal Grazing (identify native/stock) Fire damage Storm damage Weediness antong infestation; Privet infestation, urban remnan Other adjoins construction site (NMH) Severity: 0=no evidence, 1=light, 2=moderate, 3=severe Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=oid (>10yrs)

400 m <sup>2</sup> p	lot: Sh	eet _	of _	Survey Name	Plot Identifier	Recorders
Date	6.	6	2019	NMH Stage 2	BANGLOT (1)	IM (Sclerophyll Flora)

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	N, E or HTE	Cover	Abund	stratu m	vouch er
+	Cosymbia maculata	N	30	12	U	
+	Eucalyptus punctata	N	20	14	U	
5	Acacia elongata	N	2	20	M	
5	Leucopogon juniperinos	N	2	15	M	***********
5	Lantana camara	HTE	30	5004	M	
5	Ozothamnus diosmifolius	N	1	10	M	V
2	Cheilenthes sieberi	N	1	2004	G	-
5	Dianella revoluta - non (mostly jus).	N	5	200+	8	
9	Entolosia stricta	N	5	500t	G	
9	Microlaena stippides	N	4	200+	G	
9	Aristida ramosa	N	4.	50+	G	
9	Sporobolus indicus	E	0.1	2	G	
9	Cymbopogon refractus	N	43	30+	G	
S	Bursania spinosa.	N	2	50+	M	
r	Lomandra longitation	N	1	30+	G	
+	Pratia purpurascens.	N	2	150+	G	
9	Aristida vagans	N	55.	20	G	
1	Parsonsia straminea	N	0.2	20	all	
f	Brunoniella pumilio	7	1.	2	G	
	Randorea pandorana. (juviint; adult leaves)	N	2	360+	G,M	
f	Goodenia hedergeeg.	N	.2	200	G	
5	Opercularia diphylla	N	0.3	1	G	
1	Hardenbergia violacea.	N	0.1	3	G,M	
5	Acacia parvipinnula - seedling (2).	· N	0.1	2	M	
9	Echinopogon caespitosus (v.long ann).	N	4	20	G	1
V	Lepidosperma laterale	N	0.3	30+	G	
£	Pomax umbellata.	Ν	2	4	G	
S	Ligustrum sinense	HTE	1	10	M	
5	Pittosporum undulgtum.	N	0.5	8	M	
9	Themeda triandra	N	4	5	G	
2	Glochidion ferdinandi - seedling, saplings.	N	0.1	4	MG	
9	Imperata cylindrica var major.	N	5	100+	G	
9	Eragrostis trounii	N	4		G	
1	Smilax so- (ivx.leaves) - preb. aristata.	N	0.1	2	G	
9	Ranicum simile V (finely striplate paley territo	N	5	10	G	3
5	Breynia oblehaifolia - sopling.	N	0.1	1	MG	
f	Goodenia belliditolia - ch.	N	0.1	40	G	
2	Acacia falcata sapling.	N	0.2	3	G	
5	Euchiton sp.	N	1	10	G	2
f	Senecio madagascariensis	HTE		20	G	

GF Code: see Growth Form definitions in Appendix 1 N: native, E: exotic, HTE: high threat exotic GF – circle code if 'top 3'.

**Cover:** 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); **Note:** 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m **Abundance:** 1, 2, 3, ..., 10, 20, 30, ... 1000, 200, ..., 1000, ...

400 m <sup>2</sup> p	plot: Sheet 2 of 2	Survey Name	Plot Identifier	Recorders			
Date	6.6.19	NHH Stage 2	BAMPLOT (T)	IM (Sclerophyll Flora)			

Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	N, E or HTE	Cover	Abund	stratu m	vouc
3	Wahlenbergia communis	N	0.5	5	G	OCCUPANTO CONSTRUCTION OF THE PARTY OF THE P
5	Oxalis sp.	N	0.5	10	G	
+	Eucolyptus fibrosa.	N	3	1	U	-
S	Callisteman linearis	N	2	2	M	
2	Pultengea refusa	N	0.2	1	M	
٢	Lomandra multiflora	N	0.2	6	G	
S	Daviesia dicitolia (seedling)	N	6.1	1	M	
9	Digitaria previdiumis	N	3	5	G	5
9	Dishelachie micrantha (glumes long acuminate; hyalihe margins).	2	45	3	G	4
	PCT = 1592 Lower Hunter Spotted Gum			10		
	Forbarte Forest  (BEC) - Be Act.					
	(BEC) - BE Act.		i	,		
	occurrence - on siltstone midstone-derived clays.				~~~~	
	= extensive extensive.				,	
	- extensive outcropping.  - high /o weed cover (lantana, privet, african olive outside plot) . high lantana cover in plot.					
						-
10						
,						

**GF Code:** see Growth Form definitions in Appendix 1 N: native, E: exotic, HTE: high threat exotic GF – circle code if 'top 3'. Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% =  $2.0 \times 2.0 \text{ m}$ ,  $5\% = 4 \times 5 \text{ m}$ ,  $25\% = 10 \times 10 \text{ m}$  Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, ...

	L	SAM	Site – F	ield Surve	y Form	······································	Site	e Sheet r	10:
			Surve	ey Name	Plot Id	entifier		Recorde	rs
Dat	e								
Zone	Datum				Hardis Has Footback Asset (2) For Back		***************************************	1.	1
	THE SECOND STREET, STR		IBRA regi	on		Photo #			he ID
Easting	Northing			Dimensions			Orientation of from the 0 n		
/egetation	Class								Confidence:
	nunity Type							EEC:	H M L Confidence:
ANALYSIS CONTRACTOR CO									H M L
							nts along direction of n taken along midline.	nidline.	
BAM	Attribute	Cum	n values	BAM Attribu	te (20 x 50	m plot)	# Tree Ster	ns Count	Record number o
(400	m² plot)	Juli	values	dbh	E	Euc*	Non Euc	Hollows†	living eucalypt*
	Trees			large trees for	80 +		/		(Euc*) and living native non-eucal
	Shrubs			Euc* & Non Euc	cm		/		Non Euc) stems separately
Count of	Grasses etc.			50	) – 79 cm				* includes all spec
Native Richness	Forbs	-		30 – 49 cm					of Eucalyptus, Corymbia,
	Ferns	-				-/-			Angophora, Lophostemon and
	Other			20 – 29 cm					Syncarpia
		-		10 – 19 cm	/				†Record total number of stems
	Trees			5 – 9 cm	1			n/a	<ul> <li>size class with hollows (including</li> </ul>
Sum of Cover	Shrubs	_		0 0011	/			100	dead stems/trees
of native vascular	Grasses etc.			< 5 cm				n/a	
plants by	Forbs			Length of Jos	gs (m)			NA TROUBERON PARAMENTAL PROPERTY.	total
growth orm group	Ferns			(≥10 cm diamet in length)	ter, >50 cm				
	Other								thin the size class is ≤
ligh Threat	Weed cover	-		from the number	er series: 10, :	20, 30, 100,	200, 300		10. Estimates should di
							t living stem is included ng hollows, not the cou		estimate. For hollows in that stem. Only count
2000 000 11	4 - 14 - 14 - 1 - 1 - 1 - 1	->	1 144	A MANAGEMENT AND ASSESSMENT OF THE PARTY OF			cryptogam co	NATURAL DESCRIPTION OF THE PROPERTY OF THE PRO	
-	te (1 x 1 m plots		Litter c	over (%)	sare ground	d cover (%)	Cryptogam co	/er (%)	Rock cover (%)
	t score (% in ea								
	rage of the 5 subp								5 m from the plot midli
the locations 1 m x 1 m plo contribute to a	5, 15, 25, 35, and 4 ts assessors may a assessment scores	15 m alor also reco , they ho	ng the midline rd the cover of da potential v	Litter cover include of rock, bare ground alue for future veget	es leaves, see and cryptoga tation integrity	eds, twigs, bra m soil crusts. assessment a	nchlets and branches ( Collection of these data attributes and benchma	less than 10 cr a is optional - t arks, and for er	m in diameter). Within t he data do not currentl hancing PCT descripti
SATERONIS PROPRIORIS PROPRIORIS PARTIES	иментического продукти при при при при при при при при при пр	- site	features Landform	that may hel	lp in dete	CONTRACTOR OF THE STATE OF THE	PCT and Mana	NAME OF TAXABLE PARTY O	Cone (optional)
Morphologic Type	al		Element		Patte			Nicrorelief	
Lithology			Soil Surface Texture		Soil Color	ır		oil lepth	
Slope			Aspect		Site I	Drainage		istance to nea rater and type	rest
Plot Distu	rbance/	Severity	Age	Observational evi	dence:			THE RESIDENCE OF THE PARTY OF T	
	nc. logging)	COUR	code		ACTION AND ADDRESS OF THE PARTY	The superior of the superior o			
	(inc. pasture)								
Soil erosio							4	near the transfer than	
	CWD removal						<del></del>		
	ntify native/stock)								
Fire damag							and the second s		
			-					***************************************	
Storm dam			_				and the state of t		
Weediness			-						

Severity: 0=no evidence, 1=light, 2=moderate, 3=severe

-		BAM :	Site – I	Field Surv	ey For	m		Si	te She	et no	);
			Surv	ey Name	Ple	ot Identifier			Reco	rders	
Da	te 14 6	19	INH S	tage 2 80+	AR BATT	PLOT 2	12	1			
Zone 56	Datun	-	NAME OF TAXABLE PARTY.	ion Sydne	-	and the same of th	#			Zone	ID -
sens was	. GD A 94 Northir				1121	40 nestel		rientation of		The Management of the Lorentz of the	4
Easting 36922	5 6374	581		Dimension	S 10 x		17.	from the 0		S	SW
/egetation	n Class	ŧ	unter-	-marlery	dry.	scleraphy	11 +	orests.			Confidence
Plant Com	munity Type	(	1592)	spotted	um-re	dironbar	k T gre	7 gum	EE	C: V	Confidence
	ng and northing fr (Shape) of 0.04 ha	om the plot	marker. If a	applicable, orient	picket so tha	at perforated rib	points alo	ng direction of	midline.		mirenbark
	Attribute m² plot)	Sum	values	BAM Attri	bute (20 x	50 m plot)	T	# Tree Ste	ms Coun	t	Record number
	Trees		5	large trees for	80	-			-	41	(Euc*) and living
	Shrubs		7	Euc* & Non E					177	,	native non-euca (Non Euc) stems
La lan					50 - 79 c	m -	-	-	-	-	separately
Count of Native	Grasses etc.		4				7				* includes all spe of Eucalyptus,
Richness	Forbs	1	4	30 - 49 cm	n	-			-	-	Corymbia, ·
	Ferns		1	20 - 29 cm		1					Angophora, Lophostemon ar
	Other		5			-	-				Syncarpia †Record total
	Trees	4-	2.1	10 – 19 cm	n			1		-	number of stems
Sum of	-		5-9 cm			~		n/a		a	size class with hollows (includin dead stems/trees
of native	Grasses etc.	7	.3	< 5 cm			***************************************	orcelyla i anno a muurkinkin side siinessa eksi	n/a	a	
vascular plants by	Forbs	2	.6	Length of	logs (m)						total
growth orm group	Ferns		.	(≥10 cm dia in length)	meter, >50 d	om		42)			
	Other	5	. 7	Counts mus	t apply to ea	ach size class w	hen the nu	ımber of living	tree stem	s within	the size class is ≤
											m (1 ) (1 )
	Weed cover	7	8.1	from the nur For a <b>multi-</b> count only the 1 stem per t	mber series: stemmed to ne presence	10, 20, 30, 1 ree, only the lar	00, 200, 30 gest living alning hollo	oo stem is include lows, not the co	d in the cou	unt/estin	Estimates should of the country of t
BAM Attribu	ıte (1 x 1 m plo	ots)	Litter	from the nur For a multi- count only the stem per to the cover (%)	mber series: stemmed to ne presence ree where to	10, 20, 30, 1 ree, only the large of a stem contained is multi-stem	00, 200, 30 gest living alning hollo med. The	oo stem is include lows, not the co	d in the cou unt of hollo stem may	unt/estin ws in the be a de	nate. For hollows at stem. Only coun ad stem.
BAM Attribu		7 ots)	Litter	from the nur For a multi- count only the stem per to the cover (%)	stemmed to be presence ree where to Bare gro	10, 20, 30, 1 ree, only the large of a stem containee is multi-stem	00, 200, 30 gest living alning hollo med. The	oo stem is include ws, not the co hollow-bearing	d in the cou unt of hollo stem may	unt/estin ws in the be a de	nate. For <b>hollows</b> at stem. Only coun ad stem.
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Subple  Subple  Ave  Litter cover is the locations 1 m x 1 m plc contribute to Ph  Morphologic	ot score (% in orage of the 5 sull assessed as the 5, 15, 25, 35, and the sassessors may assessment score ysiography	ots) each) 8 epplots average per 45 m along also records, they hold the site f	Litter of 85 8 ercentage grig the midlined the covered potential viceatures	from the nur For a multi- count only ti 1 stem per t sover (%) 55 60 75  77  round cover of little. Litter cover incl of rock, bare groundlue for future ve	stemmed to the presence ree where tree where	10, 20, 30, 1 ree, only the large of a stem contage is multi-stem cound cover (* 2 15 - from five 1 m x s, seeds, twigs, integrate soil crustegrity assessme etermining andform	gest living hollowed. The Management of the Mana	stem is include ows, not the co hollow-bearing ryptogam co ocated on alter and branches on of these da is and benchm	d in the count of hollor stem may over (%)  nate sides, (less than ta is options arks, and for	unt/estin was in the be a de	nate. For hollows at stem. Only coun ad stem.  Rock cover (%)  - 3
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Form version 5 - designed March 2017

Printed 13 April 2019

Metford Rd urban remnant would receive urban runoff. Very poor condition roalside remnant

Stip.

400 m <sup>2</sup> plot: Sheet _ of _	Survey Name	Plot Identifier	Recorders
Date 14.6.19	NMH Stage Z BOAR	BAMPLOT (2)	IH

ANALYSIS CONTRACTOR OF THE PARTY OF THE PART	GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	N, E or HTE	Cover	Abund	stratu m	vouch er
Name and Address of the Owner, where	+	Corymbia maculata		20	22	U	
Name Annual Park	+	Eucalyptus practata		10	6	U	
-	+	Eucyloptus fibrosa		7	3	v	
-	+	Eucolzatus tereficamis		5	4	U	
-	3	Erharta erecta	ATE	5	300+	G	
-	5	Ligostrin sihense	HTE	30	10004		
	5	Lantona camara	HTE	30	10001	N	
	5	Olea europaea	HTE	5	100+	M	
-	S	Rayonia hastata	F	30	1000+	M	
I	F	Bidens pilosa	HTE	5	300+	М	
	2	Acquia parvipinnula		3	10	M	
	5	Acacia elongata		2	5	M	
-	f	Verbeng bonariensis	E	2	20+	M	
and the same of	9	Imperata cylindrica var major		5	200+	G	
-	f	Prapa eurorascens		2	100+	G	
-	9	Cynodon dadylon		2	100+	G	
-	2	Pittosporum undelatum.		20	300+	M	
-	t	Centella asiatica		0.2	10	G	
-	ţ	Oxalis sp: -nom. (gerennens)		0.2	30	G	
	f	Plantago (lancolatar) - nom intest	E*	0.2	20	G	
-	9	Panier sp. (poss. maximus - non spiralets left on)	E +	5	300+	G	1
-	5	Lieustern lucidum	HTE	2	20	M	
l	5	Breynia oblangitolia.		2	6	M	
-	1	Pandorea gandorana.		3	50+	G, M	
-	1	Geitonoplesium cymosum.		2	20+	6,7	
-	#5	Glochidion ferdinandi		3	6	M	
-	t	Conyea sp. (Lasal tuft)	E	11:	6	М	
-	F	Senecio madagascariensis	HTF	1	6	G	
-	+	Synoum glands losum - seedling.	-,-	0.1	1	G	
-	2	Rursaria spinosa.		0.5	3	М	
Opposition and Principles	f	Dignella revoluta		0.2	2	G	
-	<u>e</u>	Selagihella viiginosa.		0.1	(	G	
-	1	Clematis aristata.		0.5	6	G	
-	7	Lomandra multiflora		0.1	1	G	
-	5	Asparagus gethiopicus	HTE	0.1	2	G	
The state of the s	5	Noteiges venosa	111-6	0.1	1	М	
-	5	Entolosia stricta		0.2	4	6	
-	3	Microlaena stippides		0.1	2	G	
-	7			0-1	1	G	
-	,	Lomandra filiformis filiformis		0-1		<u>G</u>	

GF Code: see Growth Form definitions in Appendix 1

N: native, E: exotic, HTE: high threat exotic

GF - circle code if 'top 3'.

**Cover:** 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); **Note:** 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m **Abundance:** 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, ...

# Attachment C BAM Biodiversity Credit Reports



### **BAM Credit Summary Report**

#### **Proposal Details**

Assessment Id Proposal Name BAM data last updated \*

00016427/BAAS18008/19/00016428 New Maitland Hospital Stage 2 12/06/2019

SSI

Assessor Name Report Created BAM Data version \*

23/06/2019 11

Assessor Number \* Disclaimer: BAM data last updated may indicate either complete or partial update of

the BAM calculator database. BAM calculator database may not be completely aligned

with Bionet.

Revision No

0

#### Ecosystem credits for plant communities types (PCT), ecological communities & threatened species habitat

Zone	Vegetation zone name	Vegetation integrity loss / gain	Area (ha)		Species sensitivity to gain class (for BRW)	Biodiversity risk weighting	Potential SAII	Ecosystem credits			
Spotted	Spotted Gum - Red Ironbark - Grey Gum shrub - grass open forest of the Lower Hunter										
1	1592_medium	66.9	0.4	0.25	High Sensitivity to Potential Gain	2.00			14		



# **BAM Credit Summary Report**

2 1592_poor	54.8	0.3	0.25 High Sensitivity to Potential Gain	2.00		9
					Subtotal	23
					Total	23

### Species credits for threatened species

Vegetation zone name	Habitat condition (HC)	Area (ha) / individual (HL)	Constant	Biodiversity risk weighting	Potential SAII	Species credits
Petaurus norfolcensis ,	/ Squirrel Glider ( Fauna )					
1592_medium	66.9	0.43	0.25	2	False	14
1592_poor	54.8	0.12	0.25	2	False	3
					Subtotal	17



### **BAM Biodiversity Credit Report (Like for like)**

#### **Proposal Details**

Assessment Id

00016427/BAAS18008/19/00016428

Assessor Name

**Proponent Names** 

Revision No

0

Potential Serious and Irreversible Impacts

Nil

Nil

Additional Information for Approval

**PCTs With Customized Benchmarks** 

No Changes

Proposal Name BAM data last updated \*

New Maitland Hospital Stage 2 SSI 12/06/2019

Assessor Number BAM Data version \*

11

Report Created

23/06/2019

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM

calculator database may not be completely aligned with Bionet.



# **BAM Biodiversity Credit Report (Like for like)**

Predicted Threatened Species Not On Site

Name

Phascolarctos cinereus / Koala

#### **Ecosystem Credit Summary**

PCT	TEC	Area	Credits
1592-Spotted Gum - Red Ironbark - Grey Gum shrub - grass	Lower Hunter Spotted Gum—Ironbark Forest in	0.8	23.00
open forest of the Lower Hunter	the Sydney Basin Bioregion		

	Like-for-like options						
1592	TEC	НВТ	IBRA region				
	Lower Hunter Spotted Gum—Ironbark Forest in the Sydney Basin Bioregion (including PCT's 1590, 1592, 1593, 1600, 1602)	No	Hunter, Ellerston, Karuah Manning, Kerrabee, Liverpool Range, Peel, Tomalla, Upper Hunter, Wyong and Yengo. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.				



# **BAM Biodiversity Credit Report (Like for like)**

#### **Species Credit Summary**

Species	Area	Credits
Petaurus norfolcensis / Squirrel Glider	0.6	17.00

1592_medium	Like-for-like options					
	Spp	IBRA region				
	Petaurus norfolcensis/Squirrel Glider Any in NSW					
1592_poor	Like-for-like options					
	Spp	IBRA region				
	Petaurus norfolcensis/Squirrel Glider	Any in NSW				
		Petaurus norfolcensis/Squirrel Glider  1592_poor  Like-for-like options  Spp				



#### **Proposal Details**

Assessment Id

00016427/BAAS18008/19/00016428

Assessor Name

Proponent Name(s)

Revision No.

0

Potential Serious and Irreversible Impacts

Nil

Nil

**Additional Information for Approval** 

PCTs With Customized Benchmarks

No Changes

Proposal Name BAM data last updated \*

New Maitland Hospital Stage 2 SSI 12/06/2019

Assessor Number BAM Data version \*

11

Report Created

23/06/2019

\* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.



Predicted Threatened Species Not On Site

Name

Phascolarctos cinereus / Koala

#### **Ecosystem Credit Summary**

PCT	TEC	Area	Credits
1592-Spotted Gum - Red Ironbark - Grey Gum shrub - grass	Lower Hunter Spotted Gum—Ironbark Forest in	0.8	23.00
open forest of the Lower Hunter	the Sydney Basin Bioregion		

edit classes for	Like-for-like options						
592	TEC	НВТ	IBRA region				
	Lower Hunter Spotted Gum—Ironbark Forest in the Sydney Basin Bioregion (including PCT's 1590, 1592, 1593, 1600, 1602)	, No	Hunter, Ellerston, Karuah Manning, Kerrabee, Liverpool Range, Peel, Tomalla, Upper Hunter, Wyong and Yengo. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.				
	Variation options						
	Formation	Trading group		НВТ	IBRA region		



Dry Sclerophyll Forests (Shrub/gra	ass sub- Tier 3 or higher	No	IBRA Region: Sydney Basin,
formation)			or
			Any IBRA subregion that is within 100
			kilometers of the outer edge of the
			impacted site.

### **Species Credit Summary**

Species	Area	Credits
Petaurus norfolcensis / Squirrel Glider	0.6	17.00

Petaurus norfolcensis/ Squirrel Glider	1592_medium	Like-for-like options	Like-for-like options						
		Spp		IBRA region					
		Petaurus norfolcensis/	Squirrel Glider	Any in NSW					
		Variation options							
		Kingdom	Any species wi higher categor under Part 4 of shown below	y of listing	IBRA region				



		Fauna	Vulnerable		Hunter, Ellerston, Karuah Manning, Kerrabee, Liverpool Range, Peel, Tomalla, Upper Hunter, Wyong and Yengo.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.			
	1592_poor	Like-for-like options						
		Spp		IBRA region				
		Petaurus norfolcensis/Squirrel Glider		Any in NSW				
		Variation options						
		Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below		IBRA region			
		Fauna	Vulnerable		Vulnerable		Hunter, Ellerston, Karuah Manning, Kerrabee, Liverpool Range, Peel, Tomalla, Upper Hunter, Wyong and Yengo. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	



### **Biodiversity payment summary report**

23/06/2019

Assessment Id Payment data version Revision number Report created

00016427/BAAS18008/19/000164 57

28

Assessor Name Assessor Number Proposal Name

New Maitland Hospital Stage 2

SSI

0

### PCT list

Include	PCT common name	Credits
Yes	1592 - Spotted Gum - Red Ironbark - Grey Gum shrub - grass open forest of the Lower Hunter	23

### Species list

Include	Species	Credits
Yes	Petaurus norfolcensis (Squirrel Glider)	17

Ecosystem credits for plant communities types (PCT), ecological communities & threatened species habitat



### **Biodiversity payment summary report**

IBRA sub region	PCT common name	Baseline price	Dynamic coefficient	Market coefficient	Risk premiu m	Administ rative cost	Methodology adjustment factor	Price per credit	No. of ecosystem credits	Final credits price
Hunter	1592 - Spotted Gum - Red Ironbark - Grey Gum shrub - grass open forest of the Lower Hunter Note: This PCT has trades recorded	\$2,252.97	0.71782200	2.17841491	19.99%	\$20.00	1.0000	\$2,723.34	23	\$62,636.76

Subtotal (excl. GST) **\$62,636.76** 

GST **\$6,263.68** 

Total ecosystem credits (incl. GST) \$68,900.44

### Species credits for threatened species

Species profile ID	Species	Threat status	Price per credit	Risk premium	Administrative cost	No. of species credits	Final credits price
10604	<b>Petaurus norfolcensis</b> (Squirrel Glider)		\$434.47	19.9900%	\$20.00	17	\$9,202.45

Subtotal (excl. GST) \$9,202.45

GST **\$920.24** 

Total species credits (incl. GST) \$10,122.70



# **Biodiversity payment summary report**

**Grand total** 

\$79,023.14

### Attachment D SEPP Assessments



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#### SEPP 44 Assessment – Koala Habitat Protection Stage 2 New Maitland Hospital SSI – Attachment D

#### Land to which the policy applies

The policy applies to all lands in Maitland LGA as per Schedule 1 of SEPP 44 and thus applies to the Stage 2 NMH proposal.

#### Land to which Part 2 (development controls) of the SEPP 44 applies

Part 2 of SEPP 44 applies to the Stage 2 NMH proposal given that the Stage 2 NMH proposal:

- is situated on lands with which the SEPP 44 policy applies;
- relates to a development application; and
- occurs on lands with an area greater than 1 hectare.

#### Is the land potential Koala habitat?

SEPP 44 defines *potential Koala habitat* as areas of native vegetation where the trees of the types listed in Schedule 2 (of the SEPP) constitute at least 15% of the total number of trees in the upper or lower strata of the tree component. The Stage 2 NMH development site presently supports 0.76 ha of Lower Hunter Spotted Gum-Ironbark Forest (LHSGIF). The LHSGIF on the development site contains 2 tree species listed in Schedule 2 of the SEPP, these being *Eucalyptus punctata* (Grey Gum) and *Eucalyptus tereticornis* (Forest Red Gum). Based on data from 2 BAM plots recently conducted in June 2019 within extant vegetation on the development site, a portion of the site (southern section) showed 20% cover for Grey Gum whilst the central and northern portions of the site showed 10% and 5% cover for Grey Gum and Forest Red Gum, respectively. Consequently, at least a portion of the development site would be considered potential Koala habitat.

#### Is the land core Koala habitat

SEPP 44 defines *core Koala habitat* as an area of land with a resident population of koalas, evidenced by attributes such as breeding females (that is, females with young) and recent sightings of and historical records of a population. The greater Metford triangle remnant (with which the development site forms a part of) was subject to detailed ecological investigations (surveys and assessment) in spring and summer 2014 (General Flora and Fauna 2014). General Flora and Fauna (2014) did not record any Koalas or evidence of them on the site as part of their investigations. A search of the Bionet atlas records (10km radius search centered on the Stage 2 development site) revealed a single Koala record in March 2017 in Morpeth near the Hunter River. The single Bionet Koala record is from the Wildlife Rehabilitation database and notes that the individual Koala was 'stranded in an unsuitable environment'. The Lower Hunter Koala Study (EcoLogical Australia, 2013) furthermore does not identify any high or very high Koala priority habitat areas in the Maitland LGA and considers Maitland and Newcastle LGAs to be



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significant ecological barriers to movement for the Koala between known populations at Cessnock/Lake Macquarie and Port Stephens. As such, the land subject to the Stage 2 NMH proposal is not considered to be core Koala habitat and thus no site or project-specific Koala Plan of Management would be required.

#### **Draft SEPP (Environment)**

The NSW government has been working towards developing a new SEPP for the protection and management of the natural environment. Changes proposed include consolidating the following seven existing SEPPs:

- State Environmental Planning Policy No. 19 Bushland in Urban Areas;
- State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011;
- State Environmental Planning Policy No. 50 Canal Estate Development;
- Greater Metropolitan Regional Environmental Plan No. 2 Georges River Catchment;
- Sydney Regional Environmental Plan No. 20 Hawkesbury-Nepean River (No.2-1997);
- Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005; and
- Willandra Lakes Regional Environmental Plan No. 1 World Heritage Property.

Based on our review of the Draft SEPP (Environment), the Draft policy does not apply to lands subject to the Stage 2 NMH proposal. HI may wish to seek confirmation from DPE in relation to the application of the Draft policy to the NMH proposal.