



26 July 2017

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Dear Jeff,

RE – Coppabella Wind Farm (Yass WF) Modification Application: HBT impacts (our ref 16-440)

Please find attached the results of additional field work at Coppabella to quantify hollow bearing tree (HBT) impacts, July 2017. This includes:

- Survey methods and survey effort
- The proportion of the civil construction footprint that was able to be assessed
- The estimated number of HBTs within the construction footprint

Please note, the survey area reflects the latest layout of the Coppabella Wind Farm (27th June 2017) with a 5m buffer.

Additional information provided includes the size of the hollows and the GPS locations for all hollow bearing trees identified on the ground.

To provide a conservative estimate, in impact areas that were not assessed and contain trees, all trees observed from aerial imagery have been assumed to include hollows. These 'extrapolated' areas are clearly identified so that they can be surveyed at a future date.

This information is now being used to update the Modification Application for the project.

Please feel free to call me to discuss this advice further, as required.

Yours sincerely,

Brooke Marshall | Manager, NSW SE & ACT
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1 HOLLOW BEARING TREE SURVEY JULY 2017

1.1 METHOD

1.1.1 Study area and survey area

The current layout including cable design, earthworks and stockpile areas was provided as ArcView shapefiles by Goldwind on 15th May 2017 and buffered by 5m to allow for indirect impacts during construction. This defined the *study area*. Note: this excludes the cabling and transmission lines but includes areas required for tracks, turbines and hardstands, ancillary areas and their associated batters and buffer.

Based on aerial imagery, areas with the most trees were assessed as a priority. The *survey area* includes all areas assessed during July 2017; mapped on Attachment A.

1.1.2 Survey effort

The survey team included four people present onsite from July 18-21, 2017. The team was led by a lead ecologist, assisted by three environmental consultants. The total time onsite was 96 person-hours.

Approximately 48% of the study area was assessed on the ground.

1.1.3 Data collected

HBTs within the survey area were recorded, including:

- Species type (Yellow Box, White Box, Long-Leaved Box, Blakely's Red Gum, River Red Gum and Red Stringybark)
 - Size of hollows using the criteria of small: < 10cm; medium 10-20cm; large > 20 cm).
- Type of hollow:
 - Trunk, limbs, fissures.
- GPS location for each HBT.
- The Diameter at Breast Height (DBH).

1.1.4 Limitations and assumptions

- GPS accuracy was between 0-10 metres; locations were manually adjusted to suit aerial imagery (improving accuracy) where possible.
- Weather conditions included heavy rain and cloud cover, which may have impacted the ability to identify some hollows.
- Hollow sizes were recorded as estimates from the ground. Identifying 100% of hollows from the ground is not possible. The results may underestimate the number of trees particularly for small hollows.
- Trees that occur outside the survey area (identified on map in Attachment A) have been assumed to be hollow bearing until further surveys are undertaken to demonstrate otherwise.

1.2 RESULTS

The location of all HBTs recorded from field survey (survey area) are mapped in Attachment A.

Areas within the study area but outside the survey areas were extrapolated based on the aerial imagery and are differentiated on maps in Attachment A.

The results are summarised below. Detailed HBT inventory is provided in Attachment B.

Table 1-1 Summary of HBTs in survey and extrapolated areas

Hollow bearing trees	Survey area (ground validated)	Extrapolated using aerial imagery	Total
Within the civil footprint – no buffer	338	135	473
Within the 5m buffer	62	13	75
Total	400	148	548

The 5m buffer is differentiated as this is the additional area expected to be impacted indirectly, for machinery movements and installation of sediment erosion controls. A higher degree of avoidance of HBTs in the buffer area is anticipated.

1.3 INCIDENTAL OBSERVATIONS

The threatened bird species listed in Table 1-2 were identified incidentally during the surveys, within the survey areas.

Table 1-2 Summary of threatened bird species identified in areas of vegetation clearing requirements

Species	Easting (x)	Northing (y)
Brown Treecreeper (<i>Climacteris picumnus</i>)	637674	6157619
Brown Treecreeper (<i>Climacteris picumnus</i>)	637192	6157347
Flame Robin (x2) (<i>Petroica phoenicea</i>)	638546	6156147
Scarlet Robin (x2) (<i>Petroica boodang</i>)	638546	6156147
Scarlet Robin (<i>Petroica boodang</i>)	642265	6153993

ATTACHMENT A – MAP SET

HOLLOW-BEARING TREES

Coppabella Wind Farm

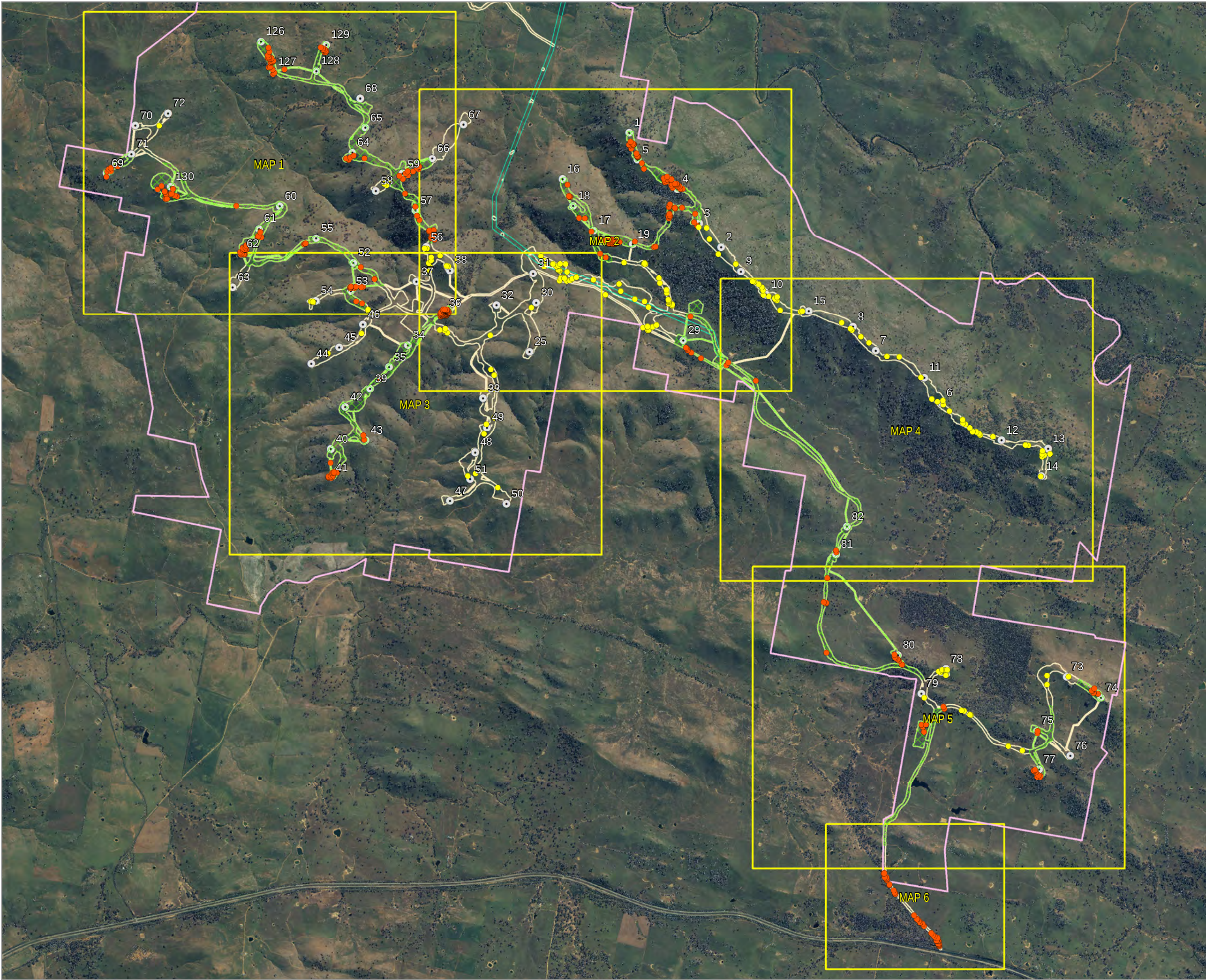
- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees

Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012

0 0.25 0.5 1 Kilometers

A3 @ 1:40500
Ref: 16-440
Author: JB

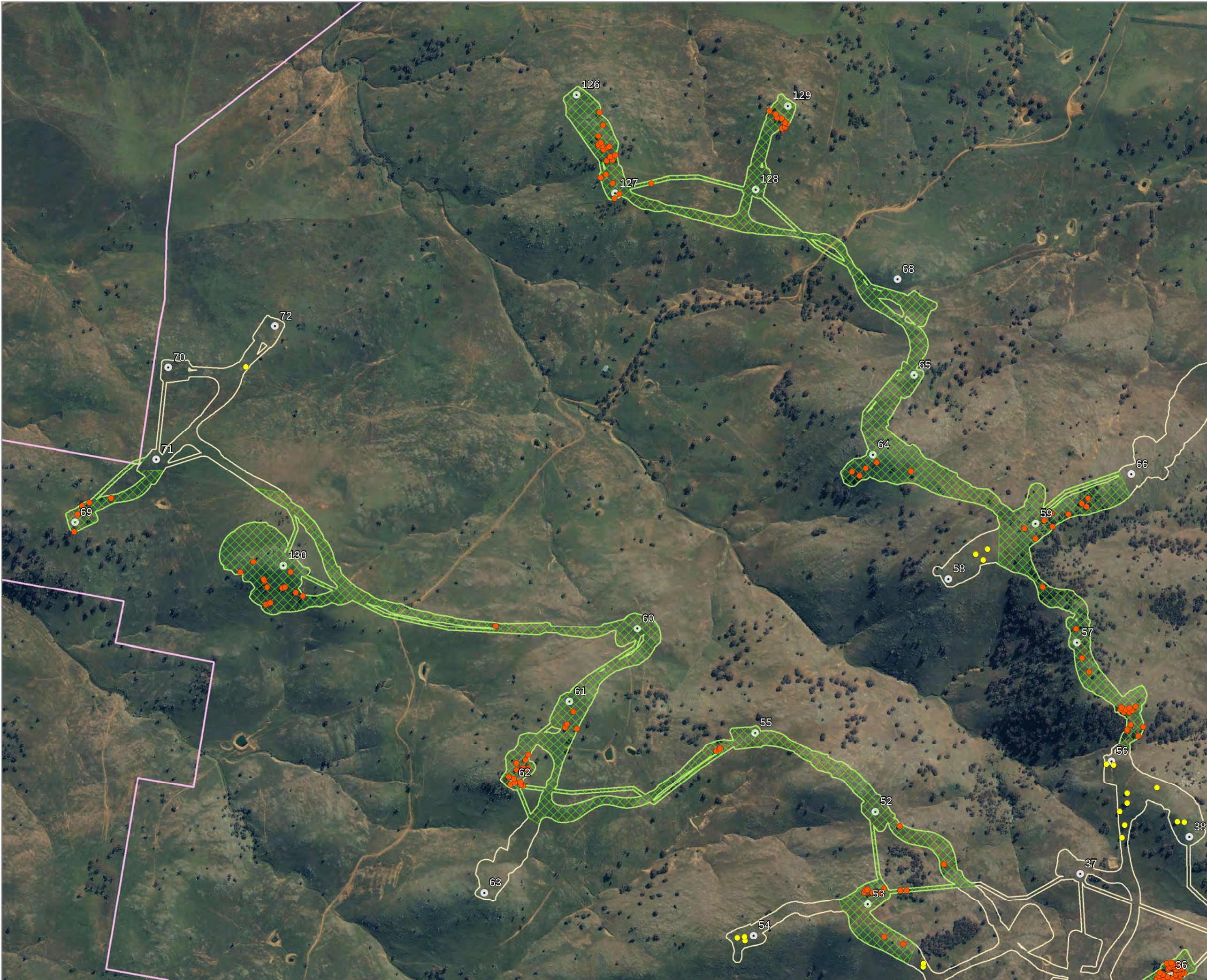
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HOLLOW-BEARING TREES

Coppabella Wind Farm
Map 1

- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees



Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012



A3 @ 1:12500
Ref: 16-440 Map 1
Author: JB



HOLLOW-BEARING TREES

Coppabella Wind Farm
Map 2

- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees

Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012

0 100 200 400 Meters

A3 @ 1:12500
Ref: 16-440 Map 2
Author: JB

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HOLLOW-BEARING TREES

Coppabella Wind Farm Map 3

- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees

Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012

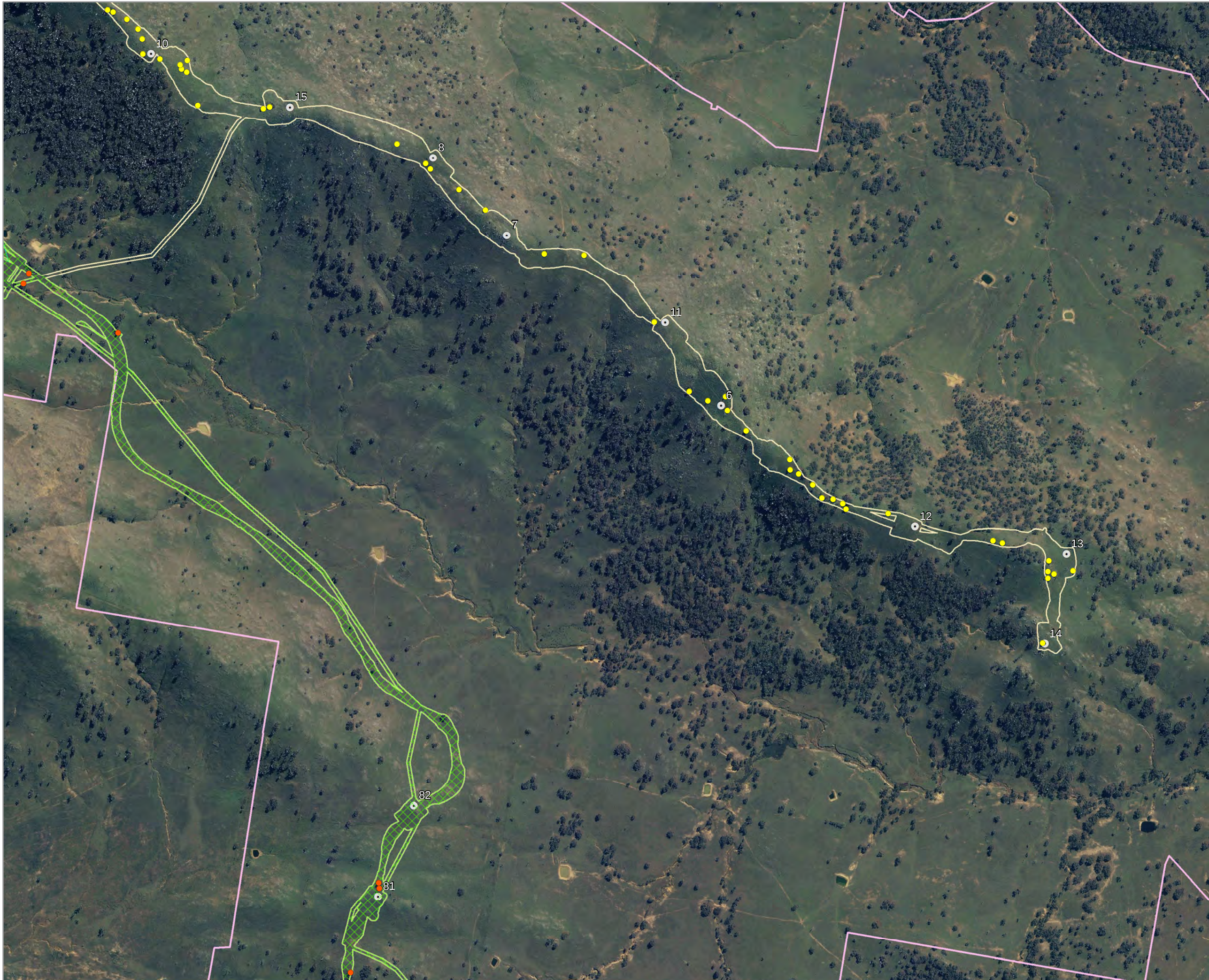
0 100 200 400 Meters

A3 @ 1:12500
Ref: 16-440 Map 3
Author: JB

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HOLLOW-BEARING TREES

Coppabella Wind Farm
Map 4

- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees

Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012

0 100 200 400 Meters

A3 @ 1:12500
Ref: 16-440 Map 4
Author: JB

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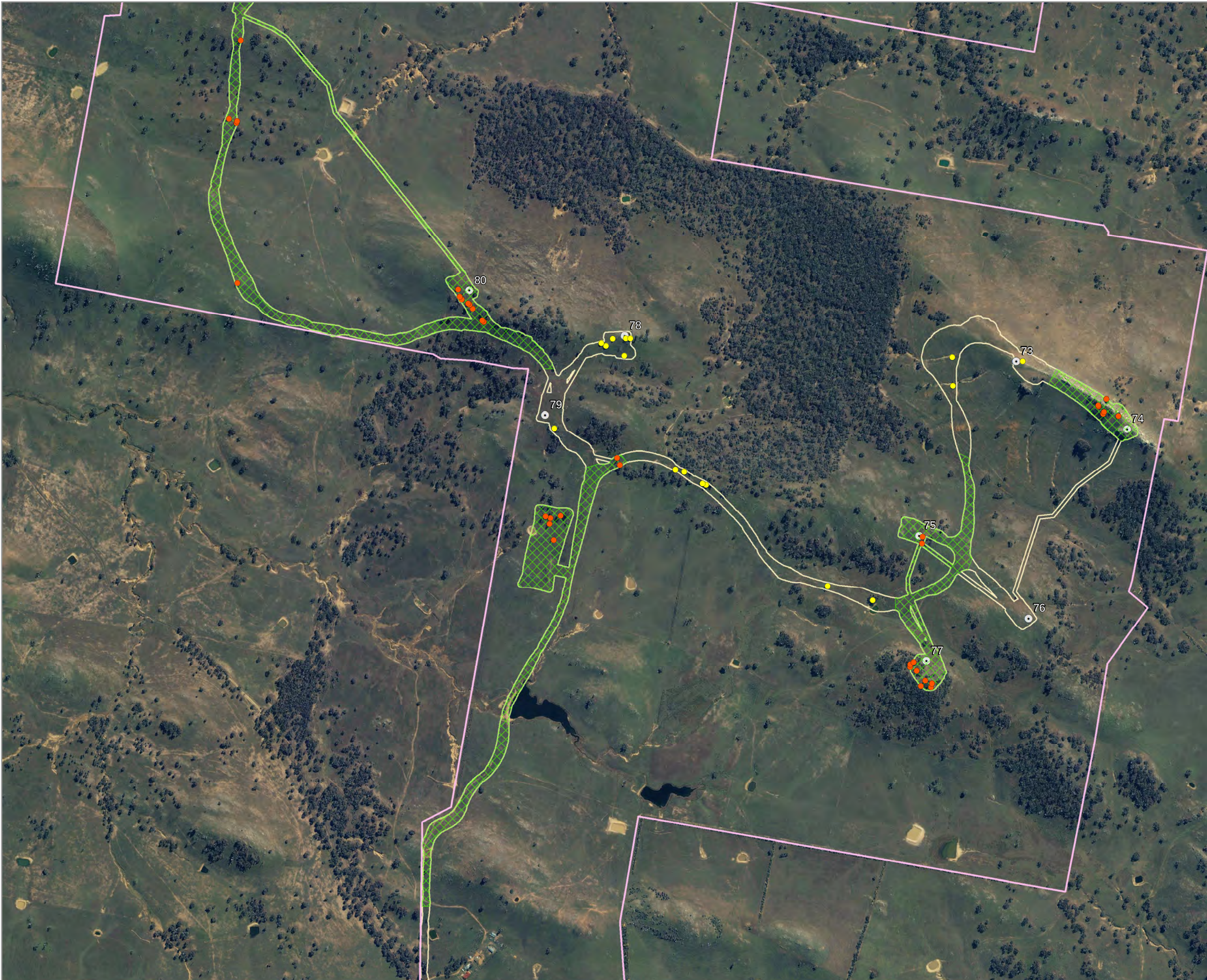


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HOLLOW-BEARING TREES

Coppabella Wind Farm
Map 5

- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees



Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012

0 100 200 400 Meters

A3 @ 1:12500
Ref: 16-440 Map 5
Author: JB

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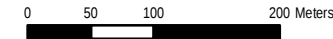


HOLLOW-BEARING TREES

Coppabella Wind Farm
Map 6

- Project Area
- Approved turbines/hardstands
- Construction footprint with 5m buffer
- 132kV Powerline
- July 2017 survey effort
- Extrapolated hollow-bearing trees
- Recorded hollow-bearing trees

Notes:
- HBT data by NGH Environmental (2016,2017)
- Design data courtesy of Goldwind, received May 2017
- Aerial imagery courtesy of Epuron 2012



A3 @ 1:6000
Ref: 16-440 Map 6
Author: JB



ATTACHMENT B – HBT INVENTORY

The following table includes all HBTs assessed in field surveys (extrapolated HBTs are not included). DBH=Diameter at Breast Height, ST=Small Trunk, MT= Medium Trunk, LT=Large Trunk, SL=Small Limb, ML=Medium Limb, LL= Large Limb, SF= Small Fissure, MF= Medium Fissure, LF=Large Fissure.

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
1	Long-leaved Box	60	0	0	0	0	0	0	0	0	1	645770.2	6149341
2	Long-leaved Box	30	1	0	0	0	0	0	0	0	0	645757.8	6149334
3	Long-leaved Box	0	0	0	0	0	1	0	0	0	2	645757.5	6149325
4	Long-leaved Box	40	0	1	0	0	0	0	0	0	0	645795.1	6149257
5	Long-leaved Box	0	0	0	1	0	0	0	0	0	0	645810.7	6149277
6	Long-leaved Box	50	0	1	0	0	0	0	0	0	0	645830.7	6149254
7	Long-leaved Box	80	0	1	0	1	0	0	0	1	0	645834.1	6149267
9	Long-leaved Box	150	0	0	0	0	2	0	0	0	0	645780.7	6149311
10	Long-leaved Box	30	0	0	1	1	0	0	0	0	0	646421.6	6150243
11	Long-leaved Box	70	0	0	0	0	0	0	0	0	1	646420.8	6150245
12	Long-leaved Box	160	0	0	1	0	0	0	0	0	0	646438.2	6150215
13	Long-leaved Box	40	0	1	0	0	0	0	0	0	0	646440.9	6150222
14	Long-leaved Box	70	0	0	0	1	0	0	0	2	0	646491.7	6150208
15	Yellow Box	80	0	0	0	0	0	0	0	1	0	646449.6	6150268
19	White Box	60	0	0	0	2	0	0	0	0	0	637653.4	6157542
20	White Box	30	0	0	1	0	0	0	0	0	0	637664.7	6157543
21	White Box	40	0	1	0	0	0	0	0	0	0	637665.1	6157547
22	White Box	60	0	0	0	0	2	0	0	0	0	637669.7	6157558
23	White Box	70	0	0	0	2	0	0	0	0	0	637663.8	6157563
24	White Box	60	1	0	0	1	1	0	0	0	0	637652.3	6157577
25	White Box	30	0	1	0	2	0	0	0	0	0	637635.9	6157578
26	Other	25	0	1	0	0	0	0	0	0	0	637630.9	6157592

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
27	White Box	80	0	1	0	2	1	0	0	0	0	637608.8	6157602
32	White Box	70	0	0	0	0	4	0	0	0	0	637022.2	6157552
33	White Box	70	0	0	0	3	0	0	0	0	0	637010.3	6157597
35	White Box	70	0	0	0	1	0	0	0	0	0	637006.4	6157514
36	White Box	40	0	1	0	0	0	0	0	0	0	637015.1	6157491
37	Other	30	0	0	0	2	2	0	0	0	0	637006.5	6157486
38	Other	30	0	0	0	1	2	0	0	0	0	637005.8	6157485
39	Other	30	0	0	0	2	2	0	0	0	0	637006.3	6157479
40	Other	20	0	0	0	2	2	0	0	0	0	637019.4	6157480
41	Other	40	0	0	0	3	2	0	0	0	0	637039.5	6157473
42	White Box	50	0	0	0	1	1	0	0	0	0	637046.2	6157478
43	White Box	40	0	0	0	0	1	0	0	0	0	637065.8	6157448
44	White Box	50	0	0	0	3	0	0	0	0	0	637054.8	6157441
45	Other	40	0	0	0	3	2	0	0	0	0	637056.8	6157429
46	Yellow Box	70	0	0	0	1	1	0	0	0	0	637047.6	6157441
47	Other	50	0	0	0	7	5	0	0	0	0	637025.1	6157466
48	Yellow Box	80	0	0	0	1	0	0	0	0	0	637035.6	6157427
51	Other	50	0	1	0	0	0	0	0	0	0	637033.3	6157379
52	White Box	100	0	0	0	2	1	0	0	0	0	637014.5	6157368
53	Other	30	0	1	0	3	0	0	0	0	0	637056.7	6157347
54	Yellow Box	60	0	0	0	2	1	0	0	0	0	637079.4	6157310
55	Yellow Box	40	0	0	0	1	0	0	0	1	0	637063.3	6157294
56	Yellow Box	60	0	0	0	2	0	0	0	0	0	637192.7	6157347
58	White Box	70	0	0	0	3	0	0	0	0	0	637899.9	6156331
61	White Box	200	0	0	0	1	0	0	0	0	0	637927.1	6156317
62	Other	50	0	0	1	0	0	0	0	0	0	637948.9	6156344
63	Long-leaved Box	150	0	0	0	3	0	0	0	0	0	637986.9	6156365

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
65	White Box	70	0	0	2	5	0	0	0	0	0	638107.6	6156333
67	White Box	60	0	1	0	2	1	0	0	0	0	638507.9	6156131
68	Other	50	0	0	1	2	0	0	0	0	0	638577.4	6156160
69	Yellow Box	200	0	0	1	0	0	0	0	0	0	638732	6156238
70	Yellow Box	150	0	0	1	0	0	0	0	0	0	638727.3	6156208
71	Other	25	0	0	1	2	0	0	0	0	0	638710.3	6156220
72	Yellow Box	60	0	0	1	0	0	0	0	0	0	638663.6	6156182
73	Yellow Box	120	0	0	0	0	1	0	0	0	0	638602.7	6156185
74	Other	25	0	0	1	0	0	0	0	0	0	638607.1	6156138
75	Long-leaved Box	70	0	0	1	0	0	0	0	0	0	638546.9	6156096
78	Other	40	1	0	0	2	0	0	0	0	0	638572.8	6155926
79	Yellow Box	80	0	0	0	0	1	0	0	0	0	638690.2	6155779
81	Other	50	0	0	1	0	0	0	0	0	0	638710.8	6155675
82	Other	0	0	0	1	0	0	0	0	0	0	638735.6	6155626
84	Long-leaved Box	80	0	0	1	1	0	0	0	0	0	638908.9	6155401
85	Other	80	0	0	0	3	0	0	0	0	0	638882.4	6155440
86	Other	50	0	0	1	0	0	0	0	0	0	638869.7	6155423
87	Long-leaved Box	50	0	0	0	1	1	0	0	0	0	638869.9	6155418
89	Other	25	0	0	1	0	0	0	0	0	0	637721.7	6152848
91	White Box	100	0	0	0	2	0	0	0	0	0	637750.9	6152737
92	White Box	50	0	0	0	2	0	0	0	0	0	637764.1	6152740
93	White Box	100	0	0	0	2	2	0	0	0	0	637749.3	6152703
94	White Box	40	0	0	1	0	0	0	0	0	0	637746.3	6152691
95	White Box	70	0	0	1	1	1	0	0	0	0	637736.3	6152673
96	White Box	60	0	0	0	4	0	0	0	0	0	637792.9	6152735
100	Other	50	0	0	1	0	0	0	0	0	0	637721.1	6152674
101	White Box	25	0	0	0	1	0	0	0	0	0	637698.5	6152678

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
102	White Box	50	0	0	0	1	0	0	0	0	0	637701.3	6152679
104	White Box	60	0	0	0	1	0	0	0	0	0	637725.6	6152696
105	White Box	50	0	0	0	4	1	0	0	0	0	637737.6	6152730
106	Other	50	0	0	1	0	0	0	0	0	0	638104.5	6153114
107	Other	60	0	0	0	0	0	0	0	0	0	638094.4	6153164
108	Yellow Box	110	0	2	0	0	0	0	0	0	0	638290.9	6153807
109	White Box	60	1	0	0	1	0	0	0	0	0	638982.8	6154524
110	White Box	50	0	0	0	2	0	0	0	0	0	638987	6154524
111	Other	25	0	0	1	0	0	0	0	0	0	638980.7	6154519
117	White Box	25	1	0	0	0	0	0	0	0	0	639009.8	6154536
118	Other	25	1	0	0	0	0	0	0	0	0	639013.5	6154537
119	White Box	15	0	0	0	1	0	0	0	0	0	639004.2	6154536
120	White Box	20	0	0	0	1	0	0	0	0	0	638999.3	6154537
121	White Box	20	0	0	0	1	0	0	0	0	0	639001.3	6154537
122	Other	15	0	0	1	0	0	0	0	0	0	638996.7	6154535
123	White Box	20	0	0	0	2	0	0	0	0	0	638996.4	6154542
124	White Box	25	1	0	0	0	0	0	0	0	0	638997.9	6154549
125	White Box	25	0	0	0	1	0	0	0	0	0	638999.9	6154549
126	Other	35	1	0	0	0	0	0	0	0	0	638985.8	6154543
127	Other	15	1	0	0	0	2	0	0	0	0	638986.4	6154543
128	Other	20	0	0	0	3	0	0	0	0	0	638985.7	6154546
129	White Box	50	1	0	0	2	2	0	0	0	0	638974.9	6154543
130	Other	30	0	0	0	4	0	0	0	0	0	638981.6	6154556
131	White Box	50	0	0	0	1	0	0	0	0	0	638997.2	6154559
132	Other	20	0	1	0	0	0	0	0	0	0	638995.2	6154561
133	White Box	60	0	0	0	2	1	0	0	0	0	638984.7	6154567
134	White Box	15	0	0	0	0	0	0	0	1	0	639016.3	6154576

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
135	White Box	25	0	0	0	1	0	0	0	0	0	639013.4	6154579
136	Other	15	1	0	0	0	0	0	0	0	0	639015.6	6154583
137	White Box	30	1	0	0	0	0	0	0	0	0	639009.2	6154599
138	White Box	30	0	0	0	1	0	0	0	0	0	639019.8	6154589
139	White Box	50	1	0	0	0	0	0	0	0	0	639024.5	6154597
140	White Box	50	0	1	0	0	0	0	0	0	0	639025	6154601
141	White Box	15	1	0	0	0	0	0	0	0	0	639029.3	6154598
142	White Box	20	1	0	0	0	0	0	0	0	0	639034.3	6154594
143	White Box	30	1	0	0	0	1	0	0	0	0	639031.7	6154587
144	White Box	30	0	0	0	1	0	0	0	0	0	639023.2	6154586
145	Other	25	0	1	0	0	0	0	0	0	0	639040.8	6154578
146	White Box	40	1	0	0	0	0	0	0	0	0	639039.3	6154587
147	White Box	10	1	0	0	1	0	0	0	0	0	639049.6	6154600
148	White Box	15	1	0	0	0	0	0	0	0	0	639050.5	6154593
149	White Box	30	0	0	0	1	0	0	0	0	0	639051.2	6154590
150	White Box	20	1	0	0	0	0	0	0	0	0	639047.3	6154586
151	White Box	25	3	0	0	0	0	0	0	0	0	639057.2	6154582
152	White Box	20	0	1	0	0	0	0	0	0	0	639064.5	6154581
153	Other	20	0	0	0	0	0	0	0	0	0	639065.5	6154580
154	White Box	30	0	0	0	0	1	0	0	0	0	639047.6	6154577
155	White Box	25	0	0	0	3	0	0	0	0	0	639045.5	6154576
156	Other	15	0	1	0	0	0	0	0	0	0	639052	6154576
157	White Box	40	1	0	0	0	0	0	0	0	0	639052.8	6154569
158	White Box	20	1	0	0	0	0	0	0	0	0	639043.3	6154565
159	White Box	20	0	0	0	1	0	0	0	0	0	639040.4	6154559
160	White Box	30	0	0	0	1	0	0	0	0	0	639041.5	6154559
161	Other	15	1	0	0	0	0	0	0	0	0	639043.2	6154557

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
162	Other	20	0	0	0	0	0	0	0	0	0	639057.3	6154561
163	White Box	40	0	0	1	0	0	0	0	0	0	639062	6154567
164	White Box	35	0	0	0	1	0	0	0	0	0	639064	6154563
165	Other	60	0	0	0	0	0	0	0	0	0	639072.3	6154566
166	White Box	10	1	0	0	0	0	0	0	0	0	639053.5	6154553
167	White Box	20	0	1	0	0	0	0	0	0	0	639056.5	6154556
168	White Box	25	1	0	0	0	0	0	0	0	0	639058	6154552
169	White Box	40	0	0	0	1	0	0	0	0	0	639045.6	6154549
170	White Box	30	0	2	0	1	0	0	0	0	0	639047.6	6154539
171	White Box	15	1	0	0	0	0	0	0	0	0	639043.3	6154535
173	White Box	40	0	0	0	0	1	0	0	0	0	639038.4	6154530
175	White Box	50	0	0	0	1	0	0	0	0	0	639030.7	6154533
176	White Box	20	0	0	0	1	0	0	0	0	0	639034	6154540
177	White Box	35	0	0	0	0	1	0	0	0	0	639030.8	6154543
178	White Box	50	0	0	0	1	1	2	0	0	0	639012.2	6154551
179	White Box	25	0	0	0	0	1	0	0	0	0	639016.1	6154541
180	White Box	25	1	0	0	0	0	0	0	0	0	639015.7	6154532
181	White Box	40	0	0	0	0	1	0	0	0	0	639005.5	6154534
182	Other	20	0	0	0	0	0	0	0	0	0	639005.2	6154541
184	Red Stringy Bark	80	0	0	0	0	0	0	0	1	0	642265.3	6153994
186	Blakely's Red Gum	80	1	0	0	1	0	0	0	0	0	642246.8	6153958
188	White Box	120	0	0	1	2	1	0	0	0	0	641833.2	6154519
192	Red Stringy Bark	90	0	0	0	1	1	0	0	0	0	641782.7	6154161
193	Red Stringy Bark	50	0	0	0	1	0	0	0	0	0	641791.7	6154155
194	Red Stringy Bark	120	0	0	0	1	3	0	0	0	0	641803.2	6154135
195	Red Stringy Bark	60	0	0	0	0	0	0	0	0	0	641842.6	6154108
198	Red Stringy Bark	60	0	0	1	1	0	1	0	0	0	641954	6154040

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
202	White Box	50	0	0	0	2	0	1	0	1	0	637696.6	6152689
204	White Box	0	0	0	1	0	0	0	0	0	0	644526.3	6149857
205	White Box	0	0	0	1	0	0	0	0	0	0	644501.1	6149772
206	Red Stringybark	0	2	0	0	3	2	1	0	0	0	644486.8	6149829
207	Unknown	0	0	0	0	0	0	4	0	0	0	644490.2	6149849
208	Long-leaved Box	0	0	0	1	0	0	0	0	0	0	644473.3	6149856
209	Unknown	0	0	0	1	0	0	2	0	0	0	645801.4	6149784
210	Unknown	0	0	0	1	0	0	0	0	0	0	645799.8	6149759
211	Unknown	0	0	0	1	4	2	1	0	0	0	644215.9	6150586
212	Red Stringybark	0	0	0	0	1	1	0	0	0	0	644205.4	6150601
213	Unknown	0	0	0	1	0	1	1	0	0	0	644199.5	6150605
214	Red Stringybark	0	0	0	1	4	0	1	0	0	0	644177.8	6150619
215	Unknown	0	1	0	0	0	0	0	0	0	0	644170.2	6150629
216	White Box	0	0	0	1	0	0	0	0	0	0	644164.5	6150655
217	Unknown	0	0	0	0	1	3	0	0	0	0	644249.3	6150545
218	Unknown	0	0	1	0	0	0	0	0	0	0	644254.8	6150540
220	Unknown	0	0	0	1	2	1	3	0	0	0	635921.9	6155978
221	White Box	0	0	0	0	1	0	2	0	0	0	635902.9	6155925
222	Yellow Box	0	0	0	0	0	4	0	0	0	0	635892.1	6155922
223	Unknown	0	0	0	0	3	3	0	0	0	0	635839.1	6155924
224	Yellow Box	0	0	1	1	4	3	0	0	0	0	635829.6	6155947
225	Other	0	0	0	1	0	0	0	0	0	0	635826.4	6155953
226	Unknown	0	0	0	0	2	0	0	0	0	0	635790.8	6156013
227	Yellow Box	0	0	1	0	1	0	0	0	0	0	635745.1	6155978
228	Unknown	0	0	0	0	0	0	2	0	0	0	635844.8	6155867
229	Yellow Box	0	0	0	0	0	1	0	0	0	0	635850.9	6155870
230	Unknown	0	0	0	0	0	2	0	0	0	0	635834.5	6155865

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
231	Yellow Box	0	0	0	0	2	0	0	0	0	0	635965	6155894
232	Unknown	0	0	0	0	1	0	0	0	0	0	635939.4	6155906
233	Other	0	0	0	1	0	0	0	0	0	0	635210.6	6156185
234	Yellow Box	0	0	0	0	8	1	1	0	0	0	635212.2	6156223
235	Other	0	0	0	1	0	0	0	0	0	0	635288.5	6156239
236	Other	0	0	0	1	0	0	0	0	0	0	635290.2	6156238
237	Yellow Box	0	0	0	0	1	0	1	0	0	0	635159.4	6156121
238	White Box	0	0	0	1	2	0	0	0	0	0	635170.7	6156182
239	Other	0	0	0	1	0	0	0	0	0	0	635187.3	6156211
240	Other	0	0	0	1	0	0	0	0	0	0	636645.2	6155788
243	Yellow Box	0	0	0	0	2	0	0	0	0	0	636930.3	6155426
244	Yellow Box	0	0	0	0	0	1	0	0	0	0	636889.3	6155430
245	Yellow Box	0	0	0	1	4	0	3	0	0	0	636895.9	6155443
246	Yellow Box	0	1	0	0	1	0	0	0	0	0	636917.4	6155486
247	Yellow Box	0	1	0	0	1	1	0	0	0	0	636733.1	6155231
248	Yellow Box	0	1	0	0	2	0	0	0	0	0	636740.5	6155225
250	Yellow Box	0	2	0	0	2	0	0	0	0	0	636732	6155238
251	Other	0	0	0	1	0	0	0	0	0	0	636710.9	6155237
252	Yellow Box	0	0	0	1	3	0	1	0	0	0	636708.1	6155250
253	Yellow Box	0	0	0	0	2	4	0	0	0	0	636689.7	6155257
254	Unknown	0	0	0	1	0	2	0	0	0	0	636696.5	6155230
255	Other	0	0	0	1	0	0	0	0	0	0	636759.5	6155287
256	Other	0	0	0	1	0	0	0	0	0	0	636753	6155284
257	Yellow Box	0	0	0	0	2	3	1	0	0	0	636739.9	6155288
258	Yellow Box	0	0	0	0	2	0	0	0	0	0	636738.1	6155287
259	Other	0	0	1	0	2	1	0	0	0	0	636719.2	6155281
260	Other	0	0	0	1	0	0	0	0	0	0	636718	6155305

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
261	Unknown	0	0	0	0	1	1	1	0	0	0	636749.5	6155316
262	Yellow Box	0	0	0	1	1	0	0	0	0	0	636759.3	6155334
264	White Box	0	0	0	0	0	0	1	0	0	0	638068.5	6155083
265	Yellow Box	0	0	0	0	2	0	0	0	0	0	638223.3	6154948
266	Yellow Box	0	0	0	0	0	0	0	0	0	0	638226.2	6154948
268	Unknown	0	0	0	0	1	0	0	0	0	0	638092.3	6154857
269	Yellow Box	0	0	0	0	1	0	0	0	0	0	638070.9	6154857
270	Yellow Box	0	1	0	0	0	0	0	0	0	0	638071.6	6154855
271	Yellow Box	0	0	0	0	2	0	0	0	0	0	638012.3	6154863
272	Other	0	0	0	1	0	0	0	0	0	0	637999.2	6154847
273	Yellow Box	0	0	0	0	1	0	0	1	0	0	637972	6154848
274	Yellow Box	0	0	0	0	4	0	0	0	0	0	637954.1	6154860
275	Yellow Box	0	0	0	0	5	1	0	0	0	0	637952.8	6154857
276	Yellow Box	0	0	1	0	0	0	0	0	0	0	637948.9	6154858
277	Yellow Box	0	0	0	0	0	2	0	0	0	0	637943.2	6154849
278	Yellow Box	0	0	0	0	2	0	0	0	0	0	637947	6154848
279	Yellow Box	0	0	0	1	0	0	0	0	0	0	638012.9	6154693
280	Yellow Box	0	0	0	1	2	0	0	0	0	0	638081.3	6154669
281	Yellow Box	0	1	0	0	0	0	0	0	0	0	637435.3	6155357
282	Yellow Box	0	0	0	0	2	0	0	0	0	0	637432.6	6155354
283	Yellow Box	0	0	0	0	1	0	0	0	0	0	637421.3	6155348
286	Long-leaved Box	0	0	1	0	1	0	0	0	0	0	641300.7	6156213
287	Long-leaved Box	0	0	0	0	0	1	0	0	0	0	641276.7	6156276
288	White Box	0	0	0	0	0	0	0	0	0	1	641225.2	6156348
289	White Box	0	0	0	0	0	1	0	0	0	0	641229.4	6156348
290	Other	0	0	0	1	0	0	0	0	0	0	641237.9	6156350
291	White Box	0	0	0	0	1	0	0	0	0	0	641235.1	6156355

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
292	White Box	0	0	0	0	3	0	0	0	0	0	641230.3	6156358
293	White Box	0	0	0	0	1	1	0	0	0	0	641222.5	6156360
294	White Box	0	0	0	0	1	1	0	0	0	0	641218.1	6156387
295	White Box	0	0	0	0	2	1	0	0	0	0	641156.7	6156444
296	White Box	0	0	0	1	3	0	0	0	0	0	641167.8	6156474
297	White Box	0	0	0	0	1	0	0	0	0	0	641173.9	6156486
298	White Box	0	0	0	0	2	0	0	0	0	0	641179.1	6156488
299	White Box	0	0	0	0	3	0	0	0	0	0	641185.5	6156493
300	White Box	0	0	0	0	2	0	0	0	0	0	641184.3	6156494
301	Other	0	0	2	0	0	1	0	0	0	0	641180.9	6156499
302	White Box	0	0	0	0	3	0	0	0	0	0	641175.1	6156505
303	White Box	0	0	0	1	0	0	0	0	0	0	641164.3	6156503
304	White Box	0	0	0	1	1	0	0	0	0	0	641148.1	6156522
305	White Box	0	0	0	0	2	0	0	0	0	0	641129.6	6156487
306	White Box	0	0	0	0	1	0	0	1	0	0	641529.3	6156103
307	White Box	0	0	0	0	0	1	0	0	0	0	641565.5	6156124
308	White Box	0	0	0	0	1	0	0	0	0	0	641535.3	6156081
309	White Box	0	0	0	0	2	0	0	0	0	0	641543.8	6156054
310	White Box	0	0	0	0	1	0	0	0	0	0	641549.6	6156058
311	White Box	0	0	0	1	1	0	0	0	0	0	641561.3	6156065
312	Other	0	0	0	0	1	0	0	0	0	0	641577.6	6156087
313	Other	0	0	0	1	0	0	0	0	0	0	641608.2	6156090
314	White Box	0	0	0	0	0	0	0	1	0	0	641617.6	6156091
315	White Box	0	1	0	0	0	0	0	0	0	0	641620.7	6156037
316	White Box	0	1	0	0	0	0	0	0	0	0	641614.3	6156025
317	White Box	0	0	0	1	0	0	0	0	0	0	641633	6155992
318	White Box	0	0	0	0	2	0	0	0	0	0	641654	6156043

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
320	White Box	0	0	0	0	1	1	0	0	0	0	641668.5	6156039
321	White Box	0	0	0	0	1	1	0	0	0	0	641675.4	6156041
322	White Box	0	0	0	0	1	1	0	0	0	0	641674.3	6156033
323	White Box	0	0	0	0	1	0	0	0	0	0	641676.1	6156025
324	White Box	0	0	0	0	2	0	0	0	0	0	641684.8	6156012
325	White Box	0	1	0	0	1	0	0	0	0	0	641706.6	6156010
326	White Box	0	0	0	0	2	0	0	0	0	0	641714.2	6155987
327	White Box	0	1	0	0	0	0	0	0	0	0	641723.9	6155976
328	White Box	0	0	0	0	2	0	0	0	0	0	641732.5	6155980
329	White Box	0	0	0	0	1	0	0	0	0	0	641743.9	6155982
330	White Box	0	0	0	0	1	0	0	0	0	0	641888.3	6155694
331	Long-leaved Box	0	0	0	0	2	0	0	0	0	0	641874.9	6155599
332	Long-leaved Box	0	0	0	0	1	0	0	0	0	0	641910	6155560
333	Long-leaved Box	0	0	1	0	1	0	0	0	0	0	641588.5	6155645
334	Long-leaved Box	0	0	0	0	1	0	0	0	0	0	641581.2	6155675
335	Unknown	0	0	0	1	1	0	0	0	0	0	641594.2	6155695
336	White Box	0	0	0	0	1	1	0	0	0	0	641587.7	6155770
337	White Box	0	0	0	0	1	0	0	0	0	0	641590.2	6155779
338	White Box	0	0	0	1	0	0	0	0	0	0	641655.8	6155763
339	Long-leaved Box	0	0	0	0	1	0	0	0	0	0	641659.4	6155755
340	Unknown	0	0	0	0	1	0	0	0	0	0	641739.3	6155763
341	White Box	0	0	0	1	0	0	0	0	0	0	641602	6155804
342	Long-leaved Box	0	1	0	0	0	0	0	0	0	0	641598.6	6155679
343	Long-leaved Box	0	0	0	0	0	1	1	0	0	0	641601.7	6155666
344	White Box	0	1	0	0	0	0	0	0	0	0	641601	6155667
345	White Box	0	1	1	0	0	0	0	0	0	0	641418.5	6155315
346	White Box	0	0	0	0	2	1	0	0	0	0	641434.3	6155317

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
350	Long-leaved Box	0	0	0	0	0	2	0	0	0	0	641198.6	6155378
351	White Box	0	0	0	0	2	0	0	0	0	0	641025.5	6155374
352	White Box	0	0	0	0	1	0	0	0	0	0	640984.1	6155357
353	White Box	0	1	0	0	0	1	0	0	0	0	640973.1	6155354
354	Other	0	0	0	1	0	0	0	0	0	0	640970.6	6155355
355	White Box	0	0	0	0	1	0	0	0	0	0	640965.8	6155349
356	White Box	0	0	0	0	1	0	0	0	0	0	640957.2	6155356
357	White Box	0	0	0	0	1	0	0	0	0	0	640940.3	6155352
358	White Box	0	0	0	0	1	0	0	0	0	0	640946.8	6155361
359	White Box	0	0	0	0	1	0	0	0	0	0	640932	6155355
360	White Box	0	0	0	0	1	0	0	0	0	0	640933.3	6155352
361	White Box	0	0	0	0	0	0	0	1	0	0	640922.2	6155363
362	Other	0	0	0	1	0	0	0	0	0	0	640916.5	6155354
363	White Box	0	0	0	0	1	0	0	0	1	0	640910.5	6155357
364	White Box	0	0	0	0	1	0	0	0	0	0	640908.1	6155358
365	Other	0	0	0	0	0	0	0	0	0	0	640903.1	6155354
366	White Box	0	0	0	0	0	1	0	0	0	0	640902.2	6155353
367	White Box	0	0	0	0	1	0	0	0	0	0	640891	6155356
368	White Box	0	0	0	0	2	0	0	0	0	0	640901.6	6155363
369	White Box	0	0	0	1	3	2	0	0	0	0	640907.4	6155374
370	White Box	0	0	1	0	0	1	0	0	0	0	640902.7	6155385
371	White Box	0	0	0	0	0	1	0	0	0	0	640898.1	6155396
372	White Box	0	0	0	0	2	0	0	0	0	0	640899.1	6155399
373	White Box	0	0	0	0	1	1	0	0	0	0	640911.8	6155396
374	Other	0	0	0	1	0	0	0	0	0	0	640915.9	6155408
375	White Box	0	0	0	0	2	0	0	0	0	0	640918.6	6155398
376	Other	0	0	0	1	0	0	0	0	0	0	640935.9	6155397

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
377	White Box	0	0	0	0	2	3	0	0	0	0	640932.5	6155374
378	White Box	0	1	0	0	1	0	0	0	0	0	640942.5	6155380
379	White Box	0	0	0	0	1	1	0	0	0	0	640954.8	6155373
380	Other	0	0	0	1	0	0	0	0	0	0	640948.9	6155398
381	White Box	0	0	0	0	1	0	0	0	0	0	640958.1	6155387
382	White Box	0	0	0	0	1	1	0	0	0	0	640960.4	6155382
383	Unknown	0	0	0	0	0	1	0	0	0	0	640966	6155379
384	White Box	0	0	0	0	1	0	0	0	0	0	640973.8	6155378
385	White Box	0	0	0	0	2	1	0	0	0	0	640957.1	6155370
386	White Box	0	0	0	0	0	3	0	0	0	0	640802.7	6155237
387	Red Stringybark	0	0	0	0	2	1	0	0	0	0	640866.5	6155194
388	Other	0	0	0	1	0	0	0	0	0	0	640852.3	6155389
389	Other	0	0	0	1	0	0	0	0	0	0	640804.1	6155409
390	White Box	0	0	1	0	3	0	1	0	0	0	640701.5	6155493
391	White Box	0	0	0	0	3	3	0	0	0	0	640626.2	6155644
392	White Box	0	0	0	0	2	0	0	0	0	0	640560.1	6155648
393	White Box	0	0	3	0	0	0	0	0	0	0	640449.7	6155891
394	White Box	0	0	3	0	0	0	0	0	0	0	640450.5	6155894
395	White Box	0	0	0	0	0	3	0	0	0	0	640457.5	6155892
396	Other	0	0	0	1	0	0	0	0	0	0	640446.4	6155900
397	White Box	0	0	0	0	2	0	0	0	0	0	640427.7	6156027
398	Long-leaved Box	0	0	1	0	0	0	0	0	0	0	643386.1	6151247
399	Long-leaved Box	0	2	1	0	0	0	0	0	0	0	643384.2	6151241
400	Long-leaved Box	0	0	0	2	0	0	0	0	0	0	643357.2	6151256
401	Red Stringybark	0	1	0	1	0	0	0	0	0	0	643398.6	6151531
402	White Box	0	0	0	0	1	0	1	0	0	0	643499.7	6151828
403	White Box	0	0	0	0	1	1	0	0	0	0	643497.8	6151847

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
406	White Box	0	0	2	2	2	1	3	0	0	0	642579.9	6153784
407	Other	0	0	0	1	0	0	0	0	0	0	643387.4	6150677
408	Yellow Box	85	0	0	1	0	0	1	0	0	0	644734	6150036
409	Red Stringybark	120	0	0	2	0	0	0	0	0	0	644725.1	6150061
410	Long-Leaved Box	75	0	0	0	1	0	0	0	0	0	638925.6	6155431
411	Long-Leaved Box	90	0	0	0	1	0	0	0	0	0	638877.5	6155481
412	Long-Leaved Box	80	0	1	0	0	0	0	0	0	0	638858.5	6155483
413	Long-Leaved Box	80	0	0	0	1	0	0	0	0	0	638874.4	6155487
414	Long-Leaved Box	90	1	0	0	0	0	0	0	0	0	638877.3	6155487
415	Long-Leaved Box	110	1	0	0	1	1	1	0	0	0	638888.2	6155488
416	Long-Leaved Box	100	0	0	0	0	1	0	0	0	0	638846.2	6155493
417	Other	70	0	0	0	0	0	1	0	0	0	638864.1	6155493
418	White Box	65	0	1	0	0	0	0	0	0	0	638878.5	6155498
419	White Box	35	0	0	0	1	0	0	0	0	0	638849.1	6155500
420	Long-Leaved Box	140	0	0	0	2	2	1	0	0	0	638899.8	6155503
421	No data available	-	-	-	-	-	-	-	-	-	-	644679.4	6147325
422	No data available	-	-	-	-	-	-	-	-	-	-	644672.9	6147333
423	No data available	-	-	-	-	-	-	-	-	-	-	644669.1	6147336
424	No data available	-	-	-	-	-	-	-	-	-	-	644669.8	6147342
425	No data available	-	-	-	-	-	-	-	-	-	-	644674.8	6147350
426	No data available	-	-	-	-	-	-	-	-	-	-	644664.8	6147354
427	No data available	-	-	-	-	-	-	-	-	-	-	644670.8	6147380
428	No data available	-	-	-	-	-	-	-	-	-	-	644649.4	6147383
429	No data available	-	-	-	-	-	-	-	-	-	-	644662.4	6147384
430	No data available	-	-	-	-	-	-	-	-	-	-	644661.8	6147385
431	No data available	-	-	-	-	-	-	-	-	-	-	644646.5	6147388
432	No data available	-	-	-	-	-	-	-	-	-	-	644645.9	6147390

HBT ID	Species	DBH(cm)	ST	MT	LT	SL	ML	LL	SF	MF	LF	Easting (x)	Northing (y)
433	No data available	-	-	-	-	-	-	-	-	-	-	644639.2	6147418
434	No data available	-	-	-	-	-	-	-	-	-	-	644657.4	6147420
435	No data available	-	-	-	-	-	-	-	-	-	-	644622.7	6147439
436	No data available	-	-	-	-	-	-	-	-	-	-	644606.1	6147452
437	No data available	-	-	-	-	-	-	-	-	-	-	644584.3	6147476
438	No data available	-	-	-	-	-	-	-	-	-	-	644501.2	6147552
439	No data available	-	-	-	-	-	-	-	-	-	-	644483.8	6147579
440	No data available	-	-	-	-	-	-	-	-	-	-	644457.7	6147595
441	No data available	-	-	-	-	-	-	-	-	-	-	644457	6147596
442	No data available	-	-	-	-	-	-	-	-	-	-	644444.2	6147614
443	No data available	-	-	-	-	-	-	-	-	-	-	644426	6147635
444	No data available	-	-	-	-	-	-	-	-	-	-	644421	6147637
445	No data available	-	-	-	-	-	-	-	-	-	-	644389.4	6147677
446	No data available	-	-	-	-	-	-	-	-	-	-	644175.5	6147921
447	No data available	-	-	-	-	-	-	-	-	-	-	644172.9	6147924
448	No data available	-	-	-	-	-	-	-	-	-	-	644166.4	6147939
449	No data available	-	-	-	-	-	-	-	-	-	-	644156.8	6147963
450	No data available	-	-	-	-	-	-	-	-	-	-	644108.7	6148022
451	No data available	-	-	-	-	-	-	-	-	-	-	644108	6148031
452	No data available	-	-	-	-	-	-	-	-	-	-	644076	6148081
453	No data available	-	-	-	-	-	-	-	-	-	-	644072.8	6148090
454	No data available	-	-	-	-	-	-	-	-	-	-	644069.3	6148094
455	No data available	-	-	-	-	-	-	-	-	-	-	644075.7	6148095
456	No data available	-	-	-	-	-	-	-	-	-	-	644071.9	6148113
457	No data available	-	-	-	-	-	-	-	-	-	-	644054.1	6148116
458	No data available	-	-	-	-	-	-	-	-	-	-	644041.6	6148154
459	No data available	-	-	-	-	-	-	-	-	-	-	644048.5	6148159