

Biodiversity Development Assessment Report

Tweed Valley Hospital

APPENDIX B. FLORISTIC AND VEGETATION INTEGRITY PLOT SURVEY FIELD RECORDS

BAM Site – Field Survey Form					Site Sheet no: 1 of 2		
		Survey Name	Zone ID	Recorders			
Date	15 / 06 / 18	TVH	Veg Zone 1	Damian Licari and Gina Minatel			
Zone 5 6	Datum GDA 1994	Plot ID	19	Plot dimensions	20m X 50m	Photo #	
Easting 5 55 890	Northing 687 39 27	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	350	Magnetic °	
Vegetation Class		Coastal Swamp Forest					Confidence: H M L
Plant Community Type		1064				EEC: Yes	Confidence: H M L

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)	Sum values
Count of Native Richness	Trees 4
	Shrubs 1
	Grasses etc. 2
	Forbs 5
	Ferns 3
	Other 1
Sum of Cover of native vascular plants by growth form group	Trees 30.3
	Shrubs 0.2
	Grasses etc. 10.5
	Forbs 30.3
	Ferns 50.4
	Other 15
High Threat Weed cover	10

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	0
50 – 79 cm	0	
30 – 49 cm	Present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	absent	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	253.50	Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)	Bare ground cover (%)	Cryptogam cover (%)	Rock cover (%)
Subplot score (% in each)	100 100 100 100 100	a b c d e	a b c d e	a b c d e
Average of the 5 subplots	100			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type	Landform Element	Landform Pattern	Microrelief
Lithology	Soil Surface Texture	Soil Colour	Soil Depth
Slope	Aspect	Site Drainage	Distance to nearest water and type

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	15 / 06 / 18	TVH	19	Damian Licari and Gina Minatel		
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	stratum	voucher
Tree	Melaleuca quinquenervia-Broad-leaved Paperbark	N	30		U	
Tree	Macaranga tanarius-Blush Macaranga	N	0.1	1	G	
Other	Parsonsia straminea-Common Silkpod	N	15		U	
Exotic	Paspalum conjugatum-Sour Grass	E	40		G	
Shurb	Hibiscus diversifolius-Swamp Hibiscus	N	0.2	2	M	
HTE	Ipomoea cairica- Coastal Morning Glory	HTE	10		G,M	
Fern	Blechnum indicum-Swamp Water Fern	N	50		G	
Forb	Persicaria strigosa- Spotted Knotweed	N	20		G	
Grass	Phragmites australis-Common Reed	N	10		G	
Forb	Solanum americanum-Glossy Nightshade	N	0.1	2	G	
Forb	Crinum pedunculatum-Swamp Lily	N	0.1	3	G,M	
Tree	Glochidion ferdinandi-Cheese Tree	N	0.1	1	G	
Forb	Persicaria dichotoma-Blume	N	0.1	3	G	
Grass	Baumea rubiginosa- Soft twigrush	N	0.5	30	G	
Forb	Persicaria sp.-Persicaria	N	10		G	
Fern	Hypolepis muelleri-Harsh Ground Fern	N	0.1	2	G	
Fern	Lygodium microphyllum-Climbing Snake Fern	N	0.3	2	M	
Tree	Melicope ellervana-Pink-flowered Doughwood	N	0.1	1	M	
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	40					

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, ...

BAM Site – Field Survey Form					Site Sheet no: 1 of 2		
		Survey Name	Zone ID	Recorders			
Date	10 / 07 / 18	TVH	Veg Zone 1	Damian Licari and Gina Minatel			
Zone 5 6	Datum GDA1994	Plot ID	16	Plot dimensions	20m X 50m	Photo #	
Easting 555 898	Northing 68 73830	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	310	Magnetic °	
Vegetation Class		Coastal Swamp Forests					Confidence: H M L
Plant Community Type		1064				EEC: Yes	Confidence: H M L

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	5
	Shrubs	2
	Grasses etc.	5
	Forbs	1
	Ferns	2
	Other	2
Sum of Cover of native vascular plants by growth form group	Trees	26.8
	Shrubs	0.7
	Grasses etc.	40
	Forbs	10
	Ferns	120
	Other	25
High Threat Weed cover		13.5

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	1
50 – 79 cm	0	
30 – 49 cm	present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	252	Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	95	70	80	95	100	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	88																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	10 / 07 / 18	TVH	16	Damian Licari and Gina Minatel		
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	stratum	voucher
Tree	Melaleuca quinquenervia-Broad-leaved Paperbark	N	20		U	
Other	Archontophoenix cunninghamiana-Bangalow Palm	N	10		M	
Tree	Melicope elleryana-Pink-flowered Doughwood	N	5	4	M	
Fern	Blechnum indicum-Swamp Water Fern	N	90		G	
Grass	Phragmites australis-Common Reed	N	10		G	
Forb	Persicaria strigosa-Spotted Knotweed	N	10		G	
Other	Parsonsia straminea-Common Silkpod	N	15		U	
Grass	Lepironia articulata-Grey Rush	N	10		G	
Grass	Carex appressa-Tall Sedge	N	5	40	G	
HTE	Ipomoea cairica- Coastal Morning Glory	HTE	10		G,M	
HTE	Cinnamomum camphora-Camphor Laurel	HTE	3	20	G,M	
Shurb	Ficus coronata-Creek Sandpaper Fig	N	0.2	3	M	
HTE	Schefflera actinophylla-Umbrella Tree	HTE	0.5	1	M	
Tree	Ficus macrophylla-Moreton Bay Fig	N	1	3	M	
Tree	Ficus obliqua-Small-leaved Fig	N	0.5	1	M	
Grass	Leersia hexandra-Swamp Ricegrass	N	10		G	
Fern	Hypolepis muelleri-Harsh Ground Fern	N	30		G	
Shurb	Myrsine Howittiana-Brush Muttonwood	N	0.5	1	M	
Tree	Glochidion ferdinandi var.pubens-Cheese Tree	N	0.3	1	G	
Grass	Baumea rubiginosa-Soft twigrush	N	5	100	G	
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	39					
	40					

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, ...

BAM Site – Field Survey Form					Site Sheet no: 1 of 2		
		Survey Name	Zone ID	Recorders			
Date	11 / 07 / 18	TVH	Veg Zone 2	Damian Licari and Gina Minatel			
Zone 56	Datum GDA1994	Plot ID	11	Plot dimensions	20m X 50m	Photo #	
Easting 555871	Northing 6873727	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	220	Magnetic °	
Vegetation Class		Subtropical Rainforests					Confidence: H M L
Plant Community Type		1302				EEC: Yes	Confidence: H M L

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	6
	Shrubs	0
	Grasses etc.	1
	Forbs	2
	Ferns	1
	Other	6
Sum of Cover of native vascular plants by growth form group	Trees	110.1
	Shrubs	0
	Grasses etc.	0.1
	Forbs	3
	Ferns	0.2
	Other	39.4
High Threat Weed cover		9.4

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	2	3
50 – 79 cm	2	
30 – 49 cm	present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	119.50	Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	80	75	95	100	100	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	90																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	11 / 07 / 18	TVH	11	Damian Licari and Gina Minatel		
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	stratum	voucher
Tree	Ficus macrophylla-Moreton Bay Fig	N	80		U	
Tree	Ficus obliqua-Small-leaved Fig	N	20		U	
Tree	Melaleuca quinquenervia-Broad-leaved Paperbark	N	5	1	M	
Other	Archontophoenix cunninghamiana-Bangalow Palm	N	14		G,M,U	
Other	Mucuna gigantea subsp. gigantea-Burny Bean	N	0.2	5	G,M	
Other	Maclura cochinchinensis-Cockspur Thorn	N	10		G,M,U	
HTE	Ochna serrulata-Mickey Mouse Plant	HTE	0.1	2	G	
HTE	Schefflera actinophylla-Umbrella Tree	HTE	5	10	G,M	
Other	Cordyline congesta- Narrow-leaved Palm Lily	N	0.1	2	G,M	
HTE	Ipomoea indica- Morning Glory	HTE	2	5	M,U	
Tree	Macaranga tanarius-Blush Macaranga	N	0.1	5	G	
Forb	Alpinia caerulea-Native Ginger	N	1	10	G	
HTE	Cinnamomum camphora-Camphor Laurel	HTE	0.1	2	M	
Tree	Ficus coronata-Creek Sandpaper Fig	N	2	3	M	
Exotic	Solanum chrysotrichum-Devil's Fig	E	0.1	2	G	
Other	Flagellaria indica-Whip Vine	N	15		U	
Grass	Oplismenus aemulus-Australian Basket Grass	N	0.1	5	G	
Other	Smilax australis-Lawyer Vine	N	0.1	5	M,U	
Forb	Alocasia brisbanensis-Cunjevoi	N	2	10	G	
HTE	Ligustrum sinense-Small-leaved Privet	HTE	2	5	G,M	
HTE	Lantana camara- Lantana	HTE	0.2	2	G,M	
Exotic	Solanum mauritianum-Wild Tobacco Bush	E	0.2	1	M	
Tree	Acmena smithii-Lilly Pilly	N	3	1	M	
Exotic	Murraya paniculata-Murraya	E	0.4	1	G,M	
Fern	Christella dentata- Binung	N	0.2	2	G	
Exotic	Archontophoenix alexandrae - Alexandra palm	E	56		G,M,U	
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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, ...

BAM Site – Field Survey Form						Site Sheet no: 1 of 2	
		Survey Name	Zone ID	Recorders			
Date	11 / 07 / 18	TVH	Veg Zone 4	Damian Licari and Gina Minatel			
Zone 5 6	Datum GDA 1994	Plot ID	99	Plot dimensions	10m X100m	Photo #	
Easting 5 55 489	Northing 687 3425	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	178	Magnetic °	
Vegetation Class		Subtropical Rainforests					Confidence: H M L
Plant Community Type		1302			EEC: No	Confidence: H M L	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	2
	Shrubs	0
	Grasses etc.	0
	Forbs	0
	Ferns	0
	Other	1
Sum of Cover of native vascular plants by growth form group	Trees	90
	Shrubs	0
	Grasses etc.	0
	Forbs	0
	Ferns	0
	Other	1
High Threat Weed cover		42

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	0
50 – 79 cm	0	
30 – 49 cm	present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	34.5 Tally space	

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	85	40	10	70	50	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	51																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders
Date	11 / 07 / 18	TVH	99	Damian Licari and Gina Minatel

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	stratum	voucher
Tree	Macaranga tanarius-Blush Macaranga	N	80		M,U	
HTE	Ochna serrulata-Mickey Mouse Plant	HTE	5	10	G	
HTE	Bidens pilosa-Cobblers Pegs	HTE	2	20	G	
HTE	Chloris gayana-Rhodes Grass	HTE	10		G	
HTE	Cinnamomum camphora-Camphor Laurel	HTE	10		M,U	
HTE	Schefflera actinophylla- Umbrella Tree	HTE	5	4	M,U	
Tree	Cupaniopsis anacardioides-Tuckeroo	N	10	2	M,U	
Exotic	Strelizia Sp.-Strelizia	E	0.1	1	G	
HTE	Asparagus aethiopicus-Ground Asparagus	HTE	10		G	
Other	Parsonsia straminea-Common Silkpod	N	1	1	U	
Exotic	Sonchus asper-Prickly Sowthistle	E	0.1	5	G	
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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, ...

BAM Site – Field Survey Form					Site Sheet no: 1 of 2		
		Survey Name	Zone ID	Recorders			
Date	1 2 / 0 7 / 1 8	TVH	Veg Zone 8	Damian Licari and Gina Minatel			
Zone 5 6	Datum GDA 1994	Plot ID	98	Plot dimensions	10m X100m	Photo #	
Easting 5 55 619	Northing 687 33 27	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	38	Magnetic °	
Vegetation Class		Subtropical Rainforests					Confidence: H M L
Plant Community Type		1302				EEC: No	Confidence: H M L

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	6
	Shrubs	0
	Grasses etc.	0
	Forbs	0
	Ferns	0
	Other	5
Sum of Cover of native vascular plants by growth form group	Trees	42
	Shrubs	0
	Grasses etc.	0
	Forbs	0
	Ferns	0
	Other	4.7
High Threat Weed cover		106

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	0
50 – 79 cm	0	
30 – 49 cm	absent	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)		0 Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	100	40	100	60	100	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	80																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	12 07 / 18	TVH	98	Damian Licari and Gina Minatel		
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	stratum	voucher
HTE	Pinus elliottii-Slash Pine	HTE	75		U	
Tree	Guioa semiglauca-Guioa	N	3	5	M	
Tree	Mallotus philippensis-Red Kamala	N	2	3	M	
Tree	Cryptocarya triplinervis var. triplinervis-3 veined laurel	N	2	5	M	
Tree	Macaranga tanarius-Blush Macaranga	N	30		M	
HTE	Senna pendula- Senna	HTE	1	1	M	
HTE	Ipomoea cairica- Coastal Morning Glory	HTE	5	10	M,U	
Other	Smilax australis-Lawyer Vine	N	1	3	M,U	
HTE	Cinnamomum camphora-Camphor Laurel	HTE	5	5	M,U	
HTE	Ochna serrulata-Mickey Mouse Plant	HTE	2	5	M	
HTE	Schefflera actinophylla-Umbrella Tree	HTE	2	5	M,U	
Exotic	Murraya paniculata-Murraya	E	0.5	2	M	
HTE	Bidens pilosa-Cobblers Pegs	HTE	5	50	G	
Other	Maclura cochinchinensis-Cockspur Thorn	N	1	1	G,M	
HTE	Chloris gayana-Rhodes Grass	HTE	1	20	G	
Other	Parsonsia straminea-Common Silkpod	N	2	3	M,U	
Tree	Mallotus discolor-White Kamala	N	1	1	M	
HTE	Asparagus aethiopicus-Ground Asparagus	HTE	10		G	
Exotic	Syagrus romanzoffiana-Cocos Palm	E	2	1	M	
Other	Archontophoenix cunninghamiana-Bangalow Palm	N	0.5	1	G,M	
Tree	Cupaniopsis anacardioides-Tuckeroo	N	4	3	M	
Exotic	Rhaphiolepis indica-Indian Hawthorn	E	1	1	M	
Exotic	Eragrostis tenuifolia-Elastic Grass	E	10		G	
Other	Amylotheca dictyophleba-Brush Mistletoe	N	0.2	5	M	
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	40					

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, ...

BAM Site – Field Survey Form					Site Sheet no: 1 of 2		
		Survey Name	Zone ID	Recorders			
Date	15 / 08 / 18	TVH	Veg Zone 7	Damian Licari and Christina Maloney			
Zone 56	Datum GDA1994	Plot ID	100	Plot dimensions	10mx100m	Photo #	
Easting 555953	Northing 6873675	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	174	Magnetic °	
Vegetation Class		Coastal Floodplain Wetlands					Confidence: H M L
Plant Community Type		1235			EEC: No	Confidence: H M L	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)	Sum values
Trees	4
Shrubs	0
Grasses etc.	0
Forbs	1
Ferns	0
Other	1
Count of Native Richness	
Trees	35.8
Shrubs	0
Grasses etc.	0
Forbs	0.1
Ferns	0
Other	3
Sum of Cover of native vascular plants by growth form group	
High Threat Weed cover	33.3

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	0
50 – 79 cm	1	
30 – 49 cm	Present	
20 – 29 cm	Present	
10 – 19 cm	Present	
5 – 9 cm	Present	
< 5 cm	Present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	9.5	Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	85	95	90	95	95	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	92																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	15 _ 08 _ / 1 8	TVH	100	Damian Licari and Christina Maloney		
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	stratum	voucher
Tree	Casuarina glauca-Swamp Oak	N	25		U	
Exotic	Melinis repens-Red Natal Grass	E	0.1	2	G	
HTE	Lantana camara-Lantana	HTE	2	3	M	
HTE	Bidens pilosa-Cobblers Pegs	HTE	10		G	
Tree	Macaranga tanarius-Blush Macaranga	N	0.5	10	M	
HTE	Senna pendula-Senna	HTE	2	5	M	
Exotic	Cenchrus purpureus-Barner Grass	E	35		M	
Forb	Oxalis sp.- Oxalis	N	0.1	1	G	
Exotic	Sonchus asper-Prickly Sowthistle	E	0.1	5	G	
HTE	Ricinus communis-Castor Oil Plant	HTE	0.2	1	M	
HTE	Ipomoea cairica-Coastal Morning Glory	HTE	6		M,U	
Exotic	Solanum mauritianum- Wild Tobacco Bush	E	5	4	M	
HTE	Schefflera actinophylla-Umbrella Tree	HTE	0.1	1	M	
Tree	Mallotus philippensis-Red Kamala	N	0.3	1	M	
Exotic	Macroptilium atropurpureum-Siratro	E	2	3	G	
Other	Diplocyclos palmatus- Native bryony	N	3	3	M	
HTE	Chloris gayana-Rhodes Grass	HTE	10		G	
HTE	Ipomoea indica-Morning Glory	HTE	3	10	M,U	
Exotic	Triumfetta rhomboidea-Chinese Bur	E	0.2	20	G	
Exotic	Passiflora subpeltata-White Passionflower	E	3	3	G,M	
Tree	Callistemon viminalis-Weeping Bottlebrush	N	10		M	
Exotic	Megathyrsus maximus var. coloratus- guinea grass	E	15		G	
	23					
	24					
	25					
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	39					
	40					

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, ...

BAM Site – Field Survey Form				Site Sheet no: 1 of 3			
		Survey Name	Zone ID	Recorders			
Date	15 / 08 / 18	TVH	Veg Zone 6	Damian Licari and Christina Maloney			
Zone	56	Datum	GDA 1994	Plot ID	101	Plot dimensions	20m X 50m
Easting	555957	Northing	6873725	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	255
						Magnetic °	
Vegetation Class		North Coast Wet Sclerophyll Forests				Confidence: H M L	
Plant Community Type		1569				EEC: No	Confidence: H M L

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	8
	Shrubs	1
	Grasses etc.	0
	Forbs	3
	Ferns	0
	Other	6
Sum of Cover of native vascular plants by growth form group	Trees	78.4
	Shrubs	2
	Grasses etc.	0
	Forbs	0.7
	Ferns	0
	Other	7.8
High Threat Weed cover		61.8

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	1
50 – 79 cm	present	
30 – 49 cm	present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	15	Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	95	90	90	98	100	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	94.6																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	15 _ 08 _ /18	TVH	101	Damian Licari and Christina Maloney		
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	stratum	voucher
Tree	Eucalyptus grandis-Flooded Gum	N	40		U	
Tree	Eucalyptus microcorys-Tallowwood	N	20		U	
Tree	Macaranga tanarius-Blush Macaranga	N	10		G,M	
HTE	Schefflera actinophylla-Umbrella Tree	HTE	15		M	
Tree	Cryptocarya triplinervis-Three-veined laurel	N	6		G,M	
HTE	Senna pendula-Senna	HTE	2	10	M	
Other	Geitonoplesium cymosum-Scrambling Lily	N	0.1	5	G	
Exotic	Syagrus romanzoffiana- Cocos Palm	E	0.3	20	M	
Other	Smilax australis-Lawyer Vine	N	2	10	G,M,U	
Exotic	Ambrosia Artemisiaefolia-Common Ragweed	E	6		G	
Forb	Alpinia caerulea-Native Ginger	N	0.5	2	G	
HTE	Ipomoea cairica- Coastal Morning Glory	HTE	10		G,M	
Other	Parsonia straminea-Common Silkpod	N	0.1	4	M	
HTE	Asparagus aethiopicus-Ground Asparagus	HTE	0.5	10	G	
Forb	Alocasia brisbanensis-Cunjevoi	N	0.1	1	G	
Tree	Ficus coronata-Creek Sandpaper Fig	N	0.2	2	M	
Other	Maclura cochinchinensis-Cockspur Thorn	N	5	5	G,M,U	
HTE	Bidens pilosa-Cobblers Pegs	HTE	10		G	
Exotic	Hypochaeris glabra-Smooth Catsear	E	0.1	1	G	
Exotic	Ageratum conyzoides subsp. Conyzoides-Goatweed	E	2	20	G	
HTE	Chloris gayana- Rhodes Grass	HTE	0.5	20	G	
Exotic	Stelitzia sp-Strelizia	E	0.1	1	G	
HTE	Ochna serrulata-Mickey Mouse Plant	HTE	1	15	G	
HTE	Lantana camara- Lantana	HTE	2	3	M	
Tree	Glochidion ferdinandi-Cheese Tree	N	0.1	1	G	
HTE	Chrysanthemoides monilifera- Bitou Bush	HTE	0.2	1	G	
Forb	Oxalis sp.-Oxalis	N	0.1	1	G	
Exotic	Murraya paniculata-Murraya	E	2	10	M	
Exotic	Setaria sphacelata- Setaria	E	1	20	G	
HTE	Ipomoea purpurea- Common Morning Glory	HTE	10		G,M	
Exotic	Passiflora subpeltata-White Passionflower	E	2	20	G,M	
Exotic	Triumfetta rhomboidea- Chinese Bur	E	20		G	
Exotic	Paspalum conjugatum- Sour Grass	E	1	30	G	
Exotic	Vicia tetrasperma-Slender Vetch	E	0.1	5	G	
Exotic	Conyza bonariensis- Flaxleaf Fleabane	E	0.1	1	G	
Other	Hibbertia scandens-Climbing Guinea Flower	N	0.5	20	G	
Exotic	Tagetes minuta- Stinking Roger	E	1	10	G	
Exotic	Desmodium intortum-Green-leaved Desmodium	E	5	10	G	
HTE	Ageratina riparia- Mistflower	HTE	0.1	4	G	
Tree	Notelaea longifolia-Large Mock-olive	N	2	2	M	

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, ...

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders
Date	15 _ 08 _ /18	TVH	101	Damian Licari and Christina Maloney

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	stratum	voucher
Tree	Glochidion sumatranum-Umbrella Cheese Tree	N	0.1	5	G	
Other	Marsdenia rostrata- Milk Vine	N	0.1	10	G,M	
Shrub	Myrsine variabilis- Muttonwood	N	2	10	M	
HTE	Melinis minutiflora-Molasses Grass	HTE	10		G	
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
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	40					

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, ...

BAM Site – Field Survey Form						Site Sheet no: 1 of 2	
		Survey Name	Zone ID	Recorders			
Date	15 / 08 / 18	TVH	Veg Zone 5	Damian Licari and Christina Maloney			
Zone 56	Datum GDA1994	Plot ID	102	Plot dimensions	10mX100m	Photo #	
Easting 555362	Northing 6873160	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	13	Magnetic °	
Vegetation Class		North Coast Wet Sclerophyll Forests				Confidence: H M L	
Plant Community Type		1569				EEC: No	Confidence: H M L

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	3
	Shrubs	0
	Grasses etc.	0
	Forbs	1
	Ferns	0
	Other	4
Sum of Cover of native vascular plants by growth form group	Trees	70
	Shrubs	0
	Grasses etc.	0
	Forbs	0.1
	Ferns	0
	Other	14.3
High Threat Weed cover		62.6

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	5	1
50 – 79 cm	Present	
30 – 49 cm	present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	146 Tally space	

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	80	95	95	97	100	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	93.4																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microrelief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)			
Cultivation (inc. pasture)			
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness			
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders			
Date	15 / 08 / 18	TVH	102	Damian Licari and Christina Maloney			
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	stratum	voucher	
Exotic	Syagrus romanzoffiana- Cocos Palm	E	4	3	M,U		
Tree	Macaranga tanarius-Blush Macaranga	N	20		M,U		
Tree	Eucalyptus grandis- Flooded Gum	N	40		U		
Tree	Guioa semiglauca-Guioa	N	10		M,U		
HTE	Cinnamomum camphora- Camphor Laurel	HTE	35		M,U		
Other	Maclura cochinchinensis-Cockspur Thorn	N	4	10	G,M,U		
Other	Smilax australis-Lawyer Vine	N	10		G,M,U		
HTE	Bidens pilosa- Cobblers Pegs	HTE	15		G		
HTE	Schefflera actinophylla- Umbrella Tree	HTE	0.5	3	M,U		
HTE	Ochna serrulata- Mickey Mouse Plant	HTE	0.5	10	G		
Exotic	Solanum nigrum- Black-berry Nightshade	E	0.2	15	G		
Exotic	Murraya paniculata- Murraya	E	0.3	10	M,U		
HTE	Lantana camara- Lantana	HTE	0.2	5	G,M		
HTE	Asparagus aethiopicus- Ground Asparagus	HTE	0.1	3	G		
HTE	Ligustrum sinense- Small-leaved Privet	HTE	0.5	6	G,M		
HTE	Senna pendula- Senna	HTE	0.5	10	M,U		
HTE	Tradescantia fluminensis- Trad	HTE	0.1	10	G		
Forb	Oxalis sp.- Oxalis	N	0.1	1	G		
Exotic	Triumfetta rhomboidea- Chinese Bur	E	10		G		
Other	Hibbertia scandens-Climbing Guinea Flower	N	0.1	2	G		
Exotic	Passiflora subpeltata- White Passionflower	E	1	3	G,M		
Exotic	Cestrum nocturnum- Lady of the Night	E	0.5	5	G,M		
Other	Stephania japonica-Snake vine	N	0.2	3	G,M		
Exotic	Passiflora suberosa- Cork Passionflower	E	0.5	15	G,M		
HTE	Ageratina riparia- Mistflower	HTE	0.2	5	G		
HTE	Melinis minutiflora- Molasses Grass	HTE	10		G		
	27						
	28						
	29						
	30						
	31						
	32						
	33						
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	35						
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	39						
	40						

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, ...

BAM Site – Field Survey Form				Site Sheet no: 1 of 2			
		Survey Name	Zone ID	Recorders			
Date	03 / 09 / 18	TVH	Veg Zone 3	Annette McKinley and Christina Maloney			
Zone 56	Datum GDA1994	Plot ID	103	Plot dimensions	20mX50m	Photo #	
Easting 555433	Northing 6873550	IBRA region	Burringbar-Conondale Ranges	Midline bearing from 0 m	68	Magnetic °	
Vegetation Class		Subtropical Rainforests				Confidence: H M L	
Plant Community Type		1302				EEC: Yes Confidence: H M L	

Record easting and northing at 0 m on midline. Dimensions (Shape) of 0.04 ha base plot.

BAM Attribute (400 m ² plot)		Sum values
Count of Native Richness	Trees	8
	Shrubs	3
	Grasses etc.	0
	Forbs	0
	Ferns	0
	Other	5
Sum of Cover of native vascular plants by growth form group	Trees	31.5
	Shrubs	0.7
	Grasses etc.	0
	Forbs	0
	Ferns	0
	Other	1.7
High Threat Weed cover		19.1

BAM Attribute (1000 m ² plot)		
DBH	# Tree Stems Count	# Stems with Hollows
80 + cm	0	0
50 – 79 cm	0	
30 – 49 cm	present	
20 – 29 cm	present	
10 – 19 cm	present	
5 – 9 cm	present	
< 5 cm	present	n/a
Length of logs (m) (≥10 cm diameter, >50 cm in length)	38.5	Tally space

Counts apply when the number of tree stems within a size class is ≤ 10. Estimates can be used when > 10 (eg. 10, 20, 30..., 100, 200, 300...). For a multi-stemmed tree, only the largest living stem is included in the count/estimate. Tree stems must be living.

For hollows, count only the presence of a stem containing hollows. For a multi-stemmed tree, only the largest stem is included in the count/estimate. Stems may be dead and may be shrubs.

BAM Attribute (1 x 1 m plots)	Litter cover (%)					Bare ground cover (%)					Cryptogam cover (%)					Rock cover (%)				
Subplot score (% in each)	85	75	75	95	95	a	b	c	d	e	a	b	c	d	e	a	b	c	d	e
Average of the 5 subplots	85																			

Litter cover is assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m plots centred at 5, 15, 25, 35, 45 m along the plot midline. Litter cover includes leaves, seeds, twigs, branchlets and branches (less than 10 cm in diameter). Assessors may also record the cover of rock, bare ground and cryptogams.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Morphological Type		Landform Element		Landform Pattern		Microlief	
Lithology		Soil Surface Texture		Soil Colour		Soil Depth	
Slope		Aspect		Site Drainage		Distance to nearest water and type	

Plot Disturbance	Severity code	Age code	Observational evidence:
Clearing (inc. logging)	0		
Cultivation (inc. pasture)	1		Edge of plot
Soil erosion			
Firewood / CWD removal			
Grazing (identify native/stock)			
Fire damage			
Storm damage			
Weediness	2		Lantana camera, Madeira vine, elephant grass, Bidens pilosa
Other			

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

Age: R=recent (<3yrs), NR=not recent (3-10yrs), O=old (>10yrs)

400 m ² plot: Sheet _ of _		Survey Name	Plot Identifier	Recorders		
Date	03_09_18	TVH	103	Annette McKinley and Christina Maloney		
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	stratum	voucher
Tree	Guioa semiglaucula-Guioa	N	8		M,U	
Tree	Macaranga tanarius-Blush Macaranga	N	10		M,U	
Tree	Diospyros fasciculosa-Grey Ebony	N	0.5	1	U	
HTE	Ligustrum sinense- Small-leaved Privet	HTE	10		G,M	
Exotic	Rivina humilis- Coral Berry	E	1	50	G	
HTE	Ipomoea cairica- Coastal Morning Glory	HTE	1	10	G,M,U	
Tree	Mallotus philippensis-Red Kamala	N	2	2	M	
HTE	Lantana camara-Lantana	HTE	4	2	G,M	
Other	Mucuna gigantea subsp. gigantea-Burny Bean	N	0.5	4	G,M,U	
Exotic	Passiflora edulis- Common Passionfruit	E	0.1	1	G,M,U	
HTE	Ochna serrulata- Mickey Mouse Plant	HTE	1	10	G	
Other	Trophis scandens-Burny Vine	N	0.1	2	G,M	
HTE	Bidens pilosa- Cobblers Pegs	HTE	3	500	G	
HTE	Senna pendula- Senna	HTE	0.1	2	M	
Exotic	Persea americana-avocado	E	0.5	2	M	
Tree	Commersonia bartramia-Brown Kurrajong	N	3	2	M,U	
Exotic	Cenchrus purpureus- Barner Grass	E	10		G	
Exotic	Solanum mauritianum- Wild Tobacco Bush	E	0.5	3	M	
Exotic	Murraya paniculata-Murraya	E	0.1	1	M	
Tree	Ficus fraseri-Sandpaper Fig	N	1	1	M	
Exotic	Cestrum sp. Cestrum	E	1	1	M	
Other	Cordyline congesta- Narrow-leaved Palm Lily	N	0.5	3	G	
Shrub	Eupomatia bennettii-Small Bolwarra	N	0.1	1	M	
Exotic	Passiflora suberosa- Cork Passionflower	E	0.1	2	G,M,U	
Tree	Cryptocarya triplinervis var. triplinervis-3 veined laurel	N	1	5	G,M	
Other	Flagellaria indica-Whip Vine	N	0.5	1	M,U	
Shrub	Capparis arborea-Native Pomegranate	N	0.5	1	M	
Shrub	Tabernaemontana pandacaqui-Banana Bush	N	0.1	1	M	
Other	Maclura cochinchinensis-Cockspur Thorn	N	0.1	1	G,M,U	
Exotic	Monstera deliciosa-Fruit Salad Plant	E	0.2	1	G	
Exotic	Paspalum mandiocanum-Boradleaf Paspalum	E	0.1	1	G	
Tree	Macadamia integrifolia <-> tetraphylla hybrid	N	6	5	M,U	
	33					
	34					
	35					
	36					
	37					
	38					
	39					
	40					

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, ...



Biodiversity Development Assessment Report

Tweed Valley Hospital

APPENDIX C. FLORISTIC VEGETATION SURVEY SUMMARY OF RESULTS

Plot Name	Scientific Name	Common Name	Growth Form Group	Stratum	Species Type	Cover	Abundance			
Plot 19										
19	Baumea rubiginosa	Soft twigrush	Grass or grass like	G	Native	0.5	30	Growth Form Group	Count of Native Species Richness	Sum of Cover
19	Blechnum indicum	Swamp Water Fern	Fern	G	Native	50	-	Tree	4	30.3
19	Crinum pedunculatum	Swamp Lily	Forb	G, M	Native	0.1	3	Shrub	1	0.2
19	Glochidion ferdinandi	Cheese Tree	Tree	G	Native	0.1	1	Forb	5	30.3
19	Hibiscus diversifolius	Swamp Hibiscus	Shrub	M	Native	0.2	2	Grass or grass like	2	10.5
19	Hypolepis muelleri	Harsh Ground Fern	Fern	G	Native	0.1	2	Fern	3	50.4
19	Ipomoea cairica	Coastal Morning Glory	N/A	G, M	Hight Threat Exotic	10	-	Other	1	15
19	Lygodium microphyllum	Climbing Snake Fern	Fern	M	Native	0.3	2	High Threat Weed Cover	10	
19	Macaranga tanarius	Blush Macaranga	Tree	G	Native	0.1	1	DBH (cm)	Stem Count	
19	Melaleuca quinquenervia	Broad-leaved Paperbark	Tree	U	Native	30	-	>80 cm	0	
19	Melicope elleryana	Pink-flowered Doughwood	Tree	M	Native	0.1	1	50-79	0	
19	Parsonsia straminea	Common Silkpod	Other	U	Native	15	-	30-49	Present	
19	Paspalum conjugatum	Sour Grass	N/A	G	Exotic	40	-	20-29	Present	
19	Persicaria dichotoma	Blume	Forb	G	Native	0.1	3	10-19	Present	
19	Persicaria sp.	Persicaria	Forb	G	Native	10	-	5-9	Absent	
19	Persicaria strigosa	Spotted Knotweed	Forb	G	Native	20	-	<5	Present	
19	Phragmites australis	Common Reed	Grass or grass like	G	Native	10	-	Stems with hollow (No.)	0	
19	Solanum americanum	Glossy Nightshade	Forb	G	Native	0.1	2	Length of logs (m)	253.5	
								Litter plot	Litter cover	
								1	100	
								2	100	
								3	100	
								4	100	
								5	100	
								Average	100	

Plot 16										
16	Archontophoenix cunninghamiana	Bangalow Palm	Other	M	Native	10	-	Growth Form Group	Count of Native Species Richness	Sum of Cover
16	Baumea rubiginosa	Soft twigrush	Grass or grass like	G	Native	5	100	Tree	5	26.8
16	Blechnum indicum	Swamp Water Fern	Fern	G	Native	90	-	Shrub	2	0.7
16	Carex appressa	Tall Sedge	Grass or grass like	G	Native	5	40	Forb	1	10
16	Cinnamomum camphora	Camphor Laurel	N/A	G, M	Hight Threat Exotic	3	20	Grass or grass like	5	40
16	Ficus coronata	Creek Sandpaper Fig	Shrub	M	Native	0.2	3	Fern	2	120
16	Ficus macrophylla	Moreton Bay Fig	Tree	M	Native	1	3	Other	2	25
16	Ficus obliqua	Small-leaved Fig	Tree	M	Native	0.5	1	High Threat Weed Cover	13.5	
16	Glochidion ferdinandi var.pubens	Cheese Tree	Tree	G	Native	0.3	1	DBH (cm)	Stem Count	
16	Hypolepis muelleri	Harsh Ground Fern	Fern	G	Native	30	-	>80 cm	0	
16	Ipomoea cairica	Coastal Morning Glory	N/A	G, M	Hight Threat Exotic	10	-	50-79	0	
16	Leersia hexandra	Swamp Ricegrass	Grass or grass like	G	Native	10	-	30-49	Present	
16	Lepironia articulata	Grey Rush	Grass or grass like	G	Native	10	-	20-29	Present	
16	Melaleuca quinquenervia	Broad-leaved Paperbark	Tree	U	Native	20	-	10-19	Present	
16	Melicope elleryana	Pink-flowered Doughwood	Tree	M	Native	5	4	5-9	Present	
16	Myrsine Howittiana	Brush Muttonwood	Shrub	M	Native	0.5	1	<5	Present	
16	Parsonsia straminea	Common Silkpod	Other	U	Native	15	-	Stems with hollow (No.)	1	
16	Persicaria strigosa	Spotted Knotweed	Forb	G	Native	10	-	Length of logs (m)	252	
16	Phragmites australis	Common Reed	Grass or grass like	G	Native	10	-	Litter plot	Litter cover	
16	Schefflera actinophylla	Umbrella Tree	N/A	M	Hight Threat Exotic	0.5	1	1	95	
								2	70	
								3	80	
								4	95	
								5	100	
								Average	88	

Plot 11										
11	Acmena smithii	Lilly Pilly	Tree	M	Native	3	1	Growth Form Group	Count of Native Species Richness	Sum of Cover
11	Alocasia brisbanensis	Cunjevoi	Forb	G	Native	2	10	Tree	6	110.1
11	Alpinia caerulea	Native Ginger	Forb	G	Native	1	10	Shrub	0	0
11	Archontophoenix alexandrae	Alexandra Palm	N/A	G,M, U	Exotic	56	-	Forb	2	3

Plot Name	Scientific Name	Common Name	Growth Form Group	Stratum	Species Type	Cover	Abundance			
11	<i>Archontophoenix cunninghamiana</i>	Bangalow Palm	Other	G, M, U	Native	14	-	Grass or grass like	1	0.1
11	<i>Christella dentata</i>	Binung	Fern	G	Native	0.2	2	Fern	1	0.2
11	<i>Cinnamomum camphora</i>	Camphor Laurel	N/A	M	High Threat Exotic	0.1	2	Other	6	39.4
11	<i>Cordyline congesta</i>	Narrow-leaved Palm Lily	Other	G, M	Native	0.1	2	High Threat Weed Cover	9.4	
11	<i>Ficus coronata</i>	Creek Sandpaper Fig	Tree	M	Native	2	3	DBH (cm)	Stem Count	
11	<i>Ficus macrophylla</i>	Moreton Bay Fig	Tree	U	Native	80	-	>80 cm	2	
11	<i>Ficus obliqua</i>	Small-leaved Fig	Tree	U	Native	20	-	50-79	2	
11	<i>Flagellaria indica</i>	Whip Vine	Other	U	Native	15	-	30-49	Present	
11	<i>Ipomoea indica</i>	Morning Glory	N/A	M, U	High Threat Exotic	2	5	20-29	Present	
11	<i>Lantana camara</i>	Lantana	N/A	G, M	High Threat Exotic	0.2	2	10-19	Present	
11	<i>Ligustrum sinense</i>	Small-leaved Privet	N/A	G, M	High Threat Exotic	2	5	5-9	Present	
11	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	G	Native	0.1	5	<5	Present	
11	<i>Maclura cochinchinensis</i>	Cockspur Thorn	Other	G, M, U	Native	10	-	Stems with hollow (No.)	3	
11	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	Tree	M	Native	5	1	Length of logs (m)	119.5	
11	<i>Mucuna gigantea subsp. gigantea</i>	Burny Bean	Other	G, M	Native	0.2	5	Litter plot	Litter cover	
11	<i>Muraya paniculata</i>	N/A	N/A	G, M	Exotic	0.4	1	1	80	
11	<i>Ochna serrulata</i>	Mickey Mouse Plant	N/A	G	High Threat Exotic	0.1	2	2	75	
11	<i>Oplismenus aemulus</i>	Australian Basket Grass	Grass or grass like	G	Native	0.1	5	3	95	
11	<i>Schefflera actinophylla</i>	Umbrella Tree	N/A	G, M	High Threat Exotic	5	10	4	100	
11	<i>Smilax australis</i>	Lawyer Vine	Other	M, U	Native	0.1	5	5	100	
11	<i>Solanum chrysotrichum</i>	Devil's Fig	N/A	G	Exotic	0.1	2	Average	90	
11	<i>Solanum mauritianum</i>	Wild Tobacco Bush	N/A	M	Exotic	0.2	1			

Plot 99										
99	<i>Asparagus aethiopicus</i>	Ground Asparagus	N/A	G	High Threat Exotic	10	-	Growth Form Group	Count of Native Species Richness	Sum of Cover
99	<i>Bidens pilosa</i>	Cobblers Pegs	N/A	G	High Threat Exotic	2	20	Tree	2	90
99	<i>Chloris gayana</i>	Rhodes Grass	N/A	G	High Threat Exotic	10	-	Shrub	0	0
99	<i>Cinnamomum camphora</i>	Camphor Laurel	N/A	M, U	High Threat Exotic	10	-	Forb	0	0
99	<i>Cupaniopsis anacardioides</i>	Tuckeroo	Tree	M, U	Native	10	2	Grass or grass like	0	0
99	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	M, U	Native	80	-	Fern	0	0
99	<i>Ochna serrulata</i>	Mickey Mouse Plant	N/A	G	High Threat Exotic	5	10	Other	1	1
99	<i>Parsonsia straminea</i>	Common Silkpod	Other	U	Native	1	1	High Threat Weed Cover	42	
99	<i>Schefflera actinophylla</i>	Umbrella Tree	N/A	M, U	High Threat Exotic	5	4	DBH (cm)	Stem Count	
99	<i>Sonchus asper</i>	Prickly Sowthistle	N/A	G	Exotic	0.1	5	>80 cm	0	
99	<i>Strelizia Sp.</i>	Strelizia	N/A	G	Exotic	0.1	1	50-79	0	
								30-49	Present	
								20-29	Present	
								10-19	Present	
								5-9	Present	
								<5	Present	
								Stems with hollow (No.)	0	
								Length of logs (m)	34.5	
								Litter plot	Litter cover	
								1	85	
								2	40	
								3	10	
								4	70	
								5	50	
								Average	51	

Plot 98										
98	<i>Amylotheca dictyophleba</i>	Brush Mistletoe	Other	M	Native	0.2	5	Growth Form Group	Count of Native Species Richness	Sum of Cover
98	<i>Archontophoenix cunninghamiana</i>	Bangalow Palm	Other	G, M	Native	0.5	1	Tree	6	42
98	<i>Asparagus aethiopicus</i>	Ground Asparagus	N/A	G	High Threat Exotic	10	-	Shrub	0	0
98	<i>Bidens pilosa</i>	Cobblers Pegs	N/A	G	High Threat Exotic	5	50	Forb	0	0
98	<i>Chloris gayana</i>	Rhodes Grass	N/A	G	High Threat Exotic	1	20	Grass or grass like	0	0
98	<i>Cinnamomum camphora</i>	Camphor Laurel	N/A	M, U	High Threat Exotic	5	5	Fern	0	0
98	<i>Cryptocarya triplinervis var. triplinervis</i>	Three-veined laurel	Tree	M	Native	2	5	Other	5	4.7
98	<i>Cupaniopsis anacardioides</i>	Tuckeroo	Tree	M,	Native	4	3	High Threat Weed Cover	106	

Plot Name	Scientific Name	Common Name	Growth Form Group	Stratum	Species Type	Cover	Abundance		
98	<i>Eragrostis tenuifolia</i>	Elastic Grass	N/A	G	Exotic	10	-	DBH (cm)	Stem Count
98	<i>Guioa semiglauc</i>	Guioa	Tree	M	Native	3	5	>80 cm	0
98	<i>Ipomoea cairica</i>	Coastal Morning Glory	N/A	M, U	High Threat Exotic	5	10	50-79	0
98	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	M	Native	30	-	30-49	Absent
98	<i>Maclura cochinchinensis</i>	Cockspur Thorn	Other	G, M	Native	1	1	20-29	Present
98	<i>Mallotus discolor</i>	White Kamala	Tree	M	Native	1	1	10-19	Present
98	<i>Mallotus philippensis</i>	Red Kamala	Tree	M	Native	2	3	5-9	Present
98	<i>Murraya paniculata</i>	Murraya	N/A	M	Exotic	0.5	2	<5	Present
98	<i>Ochna serrulata</i>	Mickey Mouse Plant	N/A	M	High Threat Exotic	2	5	Stems with hollow (No.)	0
98	<i>Parsonsia straminea</i>	Common Silkpod	Other	M, U	Native	2	3	Length of logs (m)	0
98	<i>Pinus elliptica</i>	Slash Pine	N/A	U	High Threat Exotic	75	-	Litter plot	Litter cover
98	<i>Rhaphiolepis indica</i>	Indian Hawthorn	N/A	M	Exotic	1	1	1	100
98	<i>Schefflera actinophylla</i>	Umbrella Tree	N/A	M, U	High Threat Exotic	2	5	2	40
98	<i>Senna pendula</i>	Senna	N/A	M	High Threat Exotic	1	1	3	100
98	<i>Smilax australis</i>	Lawyer Vine	Other	M, U	Native	1	3	4	60
98	<i>Syagrus romanzoffiana</i>	Cocos Palm	N/A	M	Exotic	2	1	5	100
								Average	80

Plot 100										
100	<i>Bidens pilosa</i>	Cobblers Pegs	N/A	G	Hight Threat Exotic	10	-	Growth Form Group	Count of Native Species Richness	Sum of Cover
100	<i>Callistemon viminalis</i>	Weeping Bottlebrush	Tree	M	Native	10	-	Tree	4	35.8
100	<i>Casuarina glauca</i>	Swamp Oak	Tree	U	Native	25	-	Shrub	0	0
100	<i>Chloris gayana</i>	Rhodes Grass	N/A	G	Hight Threat Exotic	10	-	Forb	1	0.1
100	<i>Diplocyclos palmatus</i>	Native bryony	Other	M	Native	3	3	Grass or grass like	0	0
100	<i>Ipomoea cairica</i>	Coastal Morning Glory	N/A	M, U	Hight Threat Exotic	6	-	Fern	0	0
100	<i>Ipomoea indica</i>	Morning Glory	N/A	M, U	Hight Threat Exotic	3	10	Other	1	3
100	<i>Lantana camara</i>	Lantana	N/A	M	Hight Threat Exotic	2	3	High Threat Weed Cover	33.3	
100	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	M	Native	0.5	10		DBH (cm)	Stem Count
100	<i>Macroptilium atropurpureum</i>	Siratro	N/A	G	Exotic	2	3	>80 cm	0	
100	<i>Mollotus philippensis</i>	Red Kamala	Tree	M	Native	0.3	1	50-79	1	
100	<i>Megathyrsus maximus var. coloratus</i>	Guinea Grass	N/A	G	Exotic	15	-	30-49	Present	
100	<i>Melinis repens</i>	Red Natal Grass	N/A	G	Exotic	0.1	2	20-29	Present	
100	<i>Oxalis Sp.</i>	Oxalis	Forb	G	Native	0.1	1	10-19	Present	
100	<i>Passiflora subpeltata</i>	White Passionflower	N/A	G, M	Exotic	3	3	5-9	Present	
100	<i>Cenchrus purpureus</i>	Barner Grass	N/A	M	Exotic	35	-	<5	Present	
100	<i>Ricinus communis</i>	Castor Oil Plant	N/A	M	Hight Threat Exotic	0.2	1	Stems with hollow (No.)	0	
100	<i>Schefflera actinophylla</i>	Umbrella Tree	N/A	M	Hight Threat Exotic	0.1	1		Length of logs (m)	9.5
100	<i>Senna pendula</i>	Senna	N/A	M	Hight Threat Exotic	2	5	Litter plot	Litter cover	
100	<i>Solanum mauritianum</i>	Wild Tobacco Bush	N/A	M	Exotic	5	4	1	85	
100	<i>Sonchus asper</i>	Prickly Sowthistle	N/A	G	Exotic	0.1	5	2	95	
100	<i>Triumfetta rhomboidea</i>	Chinese Bur	N/A	G	Exotic	0.2	20	3	90	
								4	95	
								5	95	
								Average	92	

Plot 101										
101	<i>Ageratina riparia</i>	Mistflower	N/A	G	Hight Threat Exotic	0.1	4	Growth Form Group	Cover of Native Richness	Sum of Cover
101	<i>Ageratum conyzoides</i> subsp. <i>Conyzoides</i>	Goatweed	N/A	G	Exotic	2	20	Tree	8	78.4
101	<i>Alocasia brisbanensis</i>	Cunjevoi	Forb	G	Native	0.1	1	Shrub	1	2
101	<i>Alpinia caerulea</i>	Native Ginger	Forb	G	Native	0.5	2	Forb	3	0.7
101	<i>Ambrosia Artemisiaefolia</i>	Common Ragweed	N/A	G	Exotic	6	-	Grass or grass like	0	0
101	<i>Asparagus aethiopicus</i>	Ground Asparagus	N/A	G	Hight Threat Exotic	0.5	10	Fern	0	0
101	<i>Bidens pilosa</i>	Cobblers Pegs	N/A	G	Hight Threat Exotic	10	-	Other	6	7.8
101	<i>Chloris gayana</i>	Rhodes Grass	N/A	G	Hight Threat Exotic	0.5	20	High Threat Weed Cover	61.8	
101	<i>Chrysanthemoides monilifera</i>	Bitou Bush	N/A	G	Hight Threat Exotic	0.2	1	DBH (cm)	Stem Count	
101	<i>Conyza bonariensis</i>	Flaxleaf Fleabane	N/A	G	Exotic	0.1	1	>80 cm	0	
101	<i>Cryptocarya triplinervis</i>	Three-veined laurel	Tree	G, M	Native	6	-	50-79	Present	
101	<i>Desmodium intortum</i>	Green-leaved Desmodium	N/A	G	Exotic	5	10	30-49	Present	
101	<i>Eucalyptus grandis</i>	Flooded Gum	Tree	U	Native	40	-	20-29	Present	

Plot Name	Scientific Name	Common Name	Growth Form Group	Stratum	Species Type	Cover	Abundance		
101	<i>Eucalyptus microcorys</i>	Tallowwood	Tree	U	Native	20	-	10-19	Present
101	<i>Ficus coronata</i>	Creek Sandpaper Fig	Tree	M	Native	0.2	2	5-9	Present
101	<i>Geitonoplesium cymosum</i>	Scrambling Lily	Other	G	Native	0.1	5	<5	Present
101	<i>Glochidion ferdinandi</i>	Cheese Tree	Tree	G	Native	0.1	1	Stems with hollow (No.) Length of logs (m)	1
101	<i>Glochidion sumatranum</i>	Umbrella Cheese Tree	Tree	G	Native	0.1	5		15
101	<i>Hibbertia scandens</i>	Climbing Guinea Flower	Other	G	Native	0.5	20	Litter plot	Litter cover
101	<i>Hypochoeris glabra</i>	Smooth Catsear	N/A	G	Exotic	0.1	1	1	95
101	<i>Ipomoea cairica</i>	Coastal Morning Glory	N/A	G, M	High Threat Exotic	10	-	2	90
101	<i>Ipomoea purpurea</i>	Common Morning Glory	N/A	G, M	High Threat Exotic	10	-	3	90
101	<i>Lantana camara</i>	Lantana	N/A	M	High Threat Exotic	2	3	4	98
101	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	G, M	Native	10	-	5	100
101	<i>Maclura cochinchinensis</i>	Cockspur Thorn	Other	G, M, U	Native	5	5	Average	94.6
101	<i>Marsdenia rostrata</i>	Milk Vine	Other	G, M	Native	0.1	10		
101	<i>Melinis minutiflora</i>	Molasses Grass	N/A	G	High Threat Exotic	10	-		
101	<i>Murraya paniculata</i>	Murraya	N/A	M	Exotic	2	10		
101	<i>Myrsine variabilis</i>	Muttonwood	Shrub	M	Native	2	10		
101	<i>Notelaea longifolia</i>	Large Mock-olive	Tree	M	Native	2	2		
101	<i>Ochna serrulata</i>	Mickey Mouse Plant	N/A	G	High Threat Exotic	1	15		
101	<i>Oxalis Sp.</i>	Oxalis	Forb	G	Native	0.1	1		
101	<i>Parsonsia straminea</i>	Common Silkpod	Other	M	Native	0.1	4		
101	<i>Paspalum conjugatum</i>	Sour Grass	N/A	G	Exotic	1	30		
101	<i>Passiflora subpeltata</i>	White Passionflower	N/A	G, M	Exotic	2	20		
101	<i>Schefflera actinophylla</i>	Umbrella Tree	N/A	M	High Threat Exotic	15	-		
101	<i>Senna pendula</i>	Senna	N/A	M	High Threat Exotic	2	10		
101	<i>Setaria sphacelata</i>	Setaria	N/A	G	Exotic	1	20		
101	<i>Smilax australis</i>	Lawyer Vine	Other	G, M, U	Native	2	10		
101	<i>Strelizia Sp.</i>	Strelizia	N/A	G	Exotic	0.1	1		
101	<i>Syagrus romanzoffiana</i>	Cocos Palm	N/A	M	Exotic	0.3	20		
101	<i>Tagetes minuta</i>	Stinking Roger	N/A	G	Exotic	1	10		
101	<i>Triumfetta rhomboidea</i>	Chinese Bur	N/A	G	Exotic	20	-		
101	<i>Vicia tetrasperma</i>	Slender Vetch	N/A	G	Exotic	0.1	5		

Plot 102									
102	<i>Ageratina riparia</i>	Mistflower	N/A	G	High Threat Exotic	0.2	5	Growth Form Group	Cover of Native Richness
102	<i>Asparagus aethiopicus</i>	Ground Asparagus	N/A	G	High Threat Exotic	0.1	3	Tree	3
102	<i>Bidens pilosa</i>	Cobblers Pegs	N/A	G	High Threat Exotic	15	-	Shrub	0
102	<i>Cestrum nocturnum</i>	Lady of the Night	N/A	G, M	Exotic	0.5	5	Forb	1
102	<i>Cinnamomum camphora</i>	Camphor Laurel	N/A	M, U	High Threat Exotic	35	-	Grass or grass like	0
102	<i>Eucalyptus grandis</i>	Flooded Gum	Tree	U	Native	40	-	Fern	0
102	<i>Guioa semiglauc</i>	Guioa	Tree	M, U	Native	10	-	Other	4
102	<i>Hibbertia scandens</i>	Climbing Guinea Flower	Other	G	Native	0.1	2	High Threat Weed Cover	62.6
102	<i>Lantana camara</i>	Lantana	N/A	G, M	High Threat Exotic	0.2	5	DBH (cm)	Stem Count
102	<i>Ligustrum sinense</i>	Small-leaved Privet	N/A	G, M	High Threat Exotic	0.5	6	>80 cm	5
102	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	M, U	Native	20	-	50-79	Present
102	<i>Maclura cochinchinensis</i>	Cockspur Thorn	Other	G, M, U	Native	4	10	30-49	Present
102	<i>Melinis minutiflora</i>	Molasses Grass	N/A	G	High Threat Exotic	10	-	20-29	Present
102	<i>Murraya paniculata</i>	Murraya	N/A	M, U	Exotic	0.3	10	10-19	Present
102	<i>Ochna serrulata</i>	Mickey Mouse Plant	N/A	G	High Threat Exotic	0.5	10	5-9	Present
102	<i>Oxalis Sp.</i>	Oxalis	Forb	G	Native	0.1	1	<5	Present
102	<i>Passiflora suberosa</i>	Cork Passionflower	N/A	G, M	Exotic	0.5	15	Stems with hollow (No.)	1
102	<i>Passiflora subpeltata</i>	White Passionflower	N/A	G, M	Exotic	1	3	Length of logs (m)	146
102	<i>Schefflera actinophylla</i>	Umbrella Tree	N/A	M, U	High Threat Exotic	0.5	3	Litter plot	Litter cover
102	<i>Senna pendula</i>	Senna	N/A	M, U	High Threat Exotic	0.5	10	1	80
102	<i>Smilax australis</i>	Lawyer Vine	Other	G, M, U	Native	10	-	2	95
102	<i>Solanum nigrum</i>	Black-berry Nightshade	N/A	G	Exotic	0.2	15	3	95
102	<i>Stephania japonica</i>	Snake Vine	Other	G, M	Native	0.2	3	4	97
102	<i>Syagrus romanzoffiana</i>	Cocos Palm	N/A	M, U	Exotic	4	3	5	100
102	<i>Tradescantia fluminensis</i>	Trad	N/A	G	High Threat Exotic	0.1	10	Average	93.4
102	<i>Triumfetta rhomboidea</i>	Chinese Bur	N/A	G	Exotic	10	-		

Plot Name	Scientific Name	Common Name	Growth Form Group	Stratum	Species Type	Cover	Abundance
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Plot 103							
103	<i>Bidens pilosa</i>	Cobblers Pegs	N/A	G	Hight Threat Exotic	3	500
103	<i>Capparis arborea</i>	Native Pomegranate	Shrub	M	Native	0.5	1
103	<i>Cestrum sp.</i>	Cestrum	N/A	M	Exotic	1	1
103	<i>Commersonia bartramia</i>	Brown Kurrajong	Tree	M, U	Native	3	2
103	<i>Cordyline congesta</i>	Narrow-Leaved Palm Lily	Other	G	Native	0.5	3
103	<i>Cryptocarya triplinervis var. triplinervis</i>	Three-veined laurel	Tree	G, M	Native	1	5
103	<i>Diospyros fasciculosa</i>	Grey Ebony	Tree	U	Native	0.5	1
103	<i>Eupomatia bennettii</i>	Small Bolwarra	Shrub	M	Native	0.1	1
103	<i>Ficus fraseri</i>	Sandpaper Fig	Tree	M	Native	1	1
103	<i>Flagellaria indica</i>	Whip Vine	Other	M, U	Native	0.5	1
103	<i>Guioa semiglauc</i>	Guioa	Tree	M, U	Native	8	-
103	<i>Ipomoea cairica</i>	Coastal Morning Glory	N/A	G, M, U	Hight Threat Exotic	1	10
103	<i>Lantana camara</i>	Lantana	N/A	G, M	Hight Threat Exotic	4	2
103	<i>Ligustrum sinense</i>	Small-leaved Privet	N/A	G, M	Hight Threat Exotic	10	-
103	<i>Macadamia integrifolia x tetraphylla</i>	Macadamia	Tree	M, U	Native	6	5
103	<i>Macaranga tanarius</i>	Blush Macaranga	Tree	M, U	Native	10	-
103	<i>Maclura cochinchinensis</i>	Cockspur Thorn	Other	G, M, U	Native	0.1	1
103	<i>Trophis scandens</i>	Burny Vine	Other	G, M	Native	0.1	2
103	<i>Mallotus philippensis</i>	Red Kamala	Tree	M	Native	2	2
103	<i>Monstera deliciosa</i>	Fruit Salad Plant	N/A	G	Exotic	0.2	1
103	<i>Mucuna gigantea subsp. Gigantea</i>	Burny Bean	Other	G, M, U	Native	0.5	4
103	<i>Murraya paniculata</i>	Murraya	N/A	M	Exotic	0.1	1
103	<i>Ochna serrulata</i>	Mickey Mouse Plant	N/A	G	Hight Threat Exotic	1	10
103	<i>Paspalum mandiocanum</i>	Broadleaf Paspalum	N/A	G	Exotic	0.1	1
103	<i>Passiflora edulis</i>	Common Passionfruit	N/A	G, M, U	Exotic	0.1	1
103	<i>Passiflora suberosa</i>	Cork Passionflower	N/A	G, M, U	Exotic	0.1	2
103	<i>Cenchrus purpureus</i>	Barner Grass	N/A	G	Exotic	10	-
103	<i>Persea americana</i>	Avocado	N/A	M	Exotic	0.5	2
103	<i>Rivina humilis</i>	Coral Berry	N/A	G	Exotic	1	50
103	<i>Senna pendula</i>	Senna	N/A	M	Hight Threat Exotic	0.1	2
103	<i>Solanum mauritianum</i>	Wild Tobacco Bush	N/A	M	Exotic	0.5	3
103	<i>Tabernaemontana pandacaqui</i>	Banana Bush	Shrub	M	Native	0.1	1

Growth Form Group	Cover of Native Richness	Sum of Cover
Tree	8	31.5
Shrub	3	0.7
Forb	0	0
Grass or grass like	0	0
Fern	0	0
Other	5	1.7
High Threat Weed Cover	19.1	
DBH (cm)	Stem Count	
>80 cm	0	
50-79	0	
30-49	Present	
20-29	Present	
10-19	Present	
5-9	Present	
<5	Present	
Stems with hollow (No.)	0	
Length of logs (m)	38.5	
Litter plot	Litter cover	
1	85	
2	75	
3	75	
4	95	
5	95	
Average	85	



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APPENDIX D. VEGETATION INTEGRITY SURVEY SUMMARY OF RESULTS

Plot Name	Date of Survey	Recorders	Veg Zone	PCT	EEC	Area	Patch Size	Plot Dimensions	Condition Class	Datum	Zone	Easting	Northing	Bearing	IBRA Bioregion	IBRA Subregion	Vegetation Formation	Vegetation Class	DBH <5cm	DBH 5cm to 9cm	DBH 10cm to 19cm	DBH 20cm to 29cm
19	15/06/2018	Damian Licari and Gina Minatel	1	1064	Yes	3.8	68	20m X 50m	Moderate	GDA1994	56	555890	6873927	350	South East QLD	Burringbar-Conondale Ranges	Forested Wetlands	Coastal Swamp Forests	yes	no	yes	yes
16	10/07/2018	Damian Licari and Gina Minatel	1	1064	Yes	3.8	68	20m X 50m	Moderate	GDA1994	56	555898	6873830	310	South East QLD	Burringbar-Conondale Ranges	Forested Wetlands	Coastal Swamp Forests	yes	yes	yes	yes
11	11/07/2018	Damian Licari and Gina Minatel	2	1302	Yes	1.0	68	20m X 50m	Moderate	GDA1994	56	555871	6873727	220	South East QLD	Burringbar-Conondale Ranges	Rainforests	Subtropical Rainforests	yes	yes	yes	yes
99	11/07/2018	Damian Licari and Gina Minatel	4	1302	No	0.6	68	10 x 100m	Derived	GDA1994	56	555489	6873425	178	South East QLD	Burringbar-Conondale Ranges	Rainforests	Subtropical Rainforests	yes	yes	yes	yes
98	12/07/2018	Damian Licari and Gina Minatel	8	1302	No	0.7	68	10 x 100m	Derived	GDA1994	56	555619	6873327	38	South East QLD	Burringbar-Conondale Ranges	Rainforests	Subtropical Rainforests	yes	yes	yes	yes
100	15/08/2018	Damian Licari and Christina Maloney	7	1235	No	0.1	68	10 x 100m	Derived	GDA1994	56	555953	6873675	174	South East QLD	Burringbar-Conondale Ranges	Forested Wetlands	Coastal Floodplain Wetlands	yes	yes	yes	yes
101	15/08/2018	Damian Licari and Christina Maloney	6	1569	No	0.2	68	20m X 50m	Derived	GDA1994	56	555957	6873725	255	South East QLD	Burringbar-Conondale Ranges	Wet sclerophyll	North Coast Wet Sclerophyll Forests	yes	yes	yes	yes
102	15/08/2018	Damian Licari and Christina Maloney	5	1569	No	0.5	68	10 x 100m	Derived	GDA1994	56	555362	6873160	13	South East QLD	Burringbar-Conondale Ranges	Wet sclerophyll	North Coast Wet Sclerophyll Forests	yes	yes	yes	yes
103	3/09/2018	Annette McKinley and Christina	3	1302	Yes	0.3	68	20m X 50m	Low	GDA1994	56	555433	6873550	68	South East QLD	Burringbar-Conondale Ranges	Rainforests	Subtropical Rainforests	yes	yes	yes	yes

Plot Name	DBH 30cm to 49cm	DBH 30cm to 49cm Count	DBH 50cm to 79cm	DBH 50cm to 79cm Count	DBH 80cm	DBH 80cm Count	Length of logs (m)	Hollow Trees Count	Litter Cover Plot 1	Litter Cover Plot 2	Litter Cover Plot 3	Litter Cover Plot 4	Litter Cover Plot 5
19	yes	0	no	0	no	0	253.5	0	100	100	100	100	100
16	yes	17	no	0	no	0	252	1	95	70	80	95	100
11	yes	7	yes	2	yes	2	119.5	3	80	75	95	100	100
99	yes	2	no	0	no	0	34.5	0	85	40	10	70	50
98	no	0	no	0	no	0	0	0	100	40	100	60	100
100	yes	0	yes	1	no	0	9.5	0	85	95	90	95	95
101	yes	9	yes	7	no	0	15	1	95	90	90	98	100
102	yes	0	yes	0	yes	5	146	1	80	95	95	100	97
103	yes	0	no	0	no	0	38.5	0	85	75	75	95	95



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APPENDIX E. PREDICTED THREATENED SPECIES ASSOCIATED ON SITE HABITAT AND SENSITIVITY CLASSES

					PCT 1064 Zone 1	PCT 1302 Zone 2	PCT 1302 Zone 3	PCT 1302 Zone 4	PCT 1569 Zone 5	PCT 1569 Zone 6	PCT 1235 Zone 7	PCT 1302 Zone 8	
Animal	Bat	Emballonuridae	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Bat	Molossidae	Mormopterus lumsdenae	Northern Free-tailed Bat	Yes	Yes	Yes	No	-	-	No	No	High Sensitivity to Potential Gain
Animal	Bat	Molossidae	Mormopterus norfolkensis	Eastern Freetail-bat	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Bat	Vespertilionidae	Chalinolobus nigrogriseus	Hoary Wattled Bat	Yes	-	-	-	-	-	No	-	High Sensitivity to Potential Gain
Animal	Bat	Vespertilionidae	Miniopterus australis	Little Bentwing-bat	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Bat	Vespertilionidae	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Bat	Pteropodidae	Pteropus poliocephalus	Grey-headed Flying-fox	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Bird	Accipitridae	Haliaeetus leucogaster	White-bellied Sea-Eagle	Yes	-	-	-	-	-	No	-	High Sensitivity to Potential Gain
Animal	Bird	Accipitridae	Hieraaetus morphnoides	Little Eagle	Yes	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Accipitridae	Lophochinia isura	Square-tailed Kite	-	-	-	-	-	-	Yes	-	-
Animal	Bird	Accipitridae	Pandion cristatus	Eastern Osprey	Yes	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Anatidae	Stictonetta naevosa	Freckled Duck	Yes	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Ardeidae	Botaurus poiciloptilus	Australasian Bittern	Yes	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Ardeidae	Ixobrychus flavicollis	Black Bittern	Yes	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Cacatuidae	Calyptorhynchus lathami	Glossy Black-Cockatoo	Yes	-	-	-	No	No	No	-	High Sensitivity to Potential Gain
Animal	Bird	Campephagidae	Coracina lineata	Barred Cuckoo-shrike	Yes	Yes	Yes	No	-	-	No	No	Moderate Sensitivity to Potential Gain
Animal	Bird	Ciconiidae	Ephippiorhynchus asiaticus	Black-necked Stork	Yes	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Columbidae	Ptilinopus superbus	Superb Fruit-Dove	Yes	Yes	Yes	No	No	No	-	No	Moderate Sensitivity to Potential Gain
Animal	Bird	Meliphagidae	Anthochaera phrygia	Regent Honeyeater	Yes	-	-	-	-	-	-	-	High Sensitivity to Potential Gain
Animal	Bird	Neosittidae	Daphoenositta chrysoptera	Varied Sittella	Yes	-	-	-	No	No	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Psittacidae	Glossopsitta pusilla	Little Lorikeet	Yes	-	-	-	No	No	-	-	High Sensitivity to Potential Gain
Animal	Bird	Psittacidae	Lathamus discolor	Swift Parrot	Yes	-	-	-	-	-	-	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Rostratulidae	Rostratula australis	Australian Painted Snipe	-	-	-	-	-	-	No	-	Moderate Sensitivity to Potential Gain
Animal	Bird	Strigidae	Ninox connivens	Barking Owl	Yes	-	-	-	No	No	No	-	High Sensitivity to Potential Gain
Animal	Bird	Strigidae	Ninox strenua	Powerful Owl	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Bird	Tytonidae	Tyto novaehollandiae	Masked Owl	-	-	-	-	No	No	-	-	-
Animal	Marsupial	Dasyuridae	Dasyurus maculatus	Spotted-tailed Quoll	Yes	Yes	Yes	No	No	No	No	No	High Sensitivity to Potential Gain
Animal	Marsupial	Macropodidae	Thylogale stigmatica	Red-legged Pademelon	-	No	No	No	No	No	-	No	High Sensitivity to Potential Gain
Animal	Marsupial	Phascolarctidae	Phascolarctos cinereus	Koala	Yes	-	-	-	No	No	No	-	High Sensitivity to Potential Gain



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APPENDIX F. CANDIDATE THREATENED SPECIES PRESENCE STATUS AND BIODIVERSITY RISK RATING

Plant/ Animal	Species Type	Family	Scientific Name	Common Name	Species Presence	PCT, Vegetation Zone & Value (Area (ha) or Count)								Biodiversity Risk Weighting
						Key - Shaded = Identified by BAM Calculator within the vegetation zone; Excluded = Excluded by assessor in accordance with Section 1.6.3.1								
						PCT 1064 Zone 1	PCT 1302 Zone 2	PCT 1302 Zone 3	PCT 1302 Zone 4	PCT 1569 Zone 5	PCT 1569 Zone 6	PCT 1235 Zone 7	PCT 1302 Zone 8	
Animal	Amphibian	Hylidae	Litoria brevipalmata	Green-thighed Frog	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	1.5
Animal	Amphibian	Hylidae	Litoria olongburensis	Olongburra Frog	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	1.5
Animal	Amphibian	Myobatrachidae	Crinia tinnula	Wallum Froglet	Yes - Assumed present	3.8	Excluded	Excluded	Excluded	Excluded	Excluded	Excluded	Excluded	1.5
Animal	Amphibian	Myobatrachidae	Mixophyes iteratus	Giant Barred Frog	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Animal	Bat	Vespertilionidae	Chalinolobus dwyeri	Large-eared Pied Bat	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Bat	Vespertilionidae	Miniopterus australis	Little Bentwing-bat	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Bat	Vespertilionidae	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Bat	Pteropodidae	Pteropus poliocephalus	Grey-headed Flying-fox	Yes - Assumed present	3.8	1	0.3	Excluded	0.5	0.2	Excluded	Excluded	2
Animal	Bird	Accipitridae	Haliaeetus leucogaster	White-bellied Sea-Eagle	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Bird	Accipitridae	Hieraaetus morphnoides	Little Eagle	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	1.5
Animal	Bird	Accipitridae	Lophoictinia isura	Square-tailed Kite	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	1.5
Animal	Bird	Accipitridae	Pandion cristatus	Eastern Osprey	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	1.5
Animal	Bird	Cacatuidae	Calyptorhynchus lathami	Glossy Black-Cockatoo	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Animal	Bird	Meliphagidae	Anthochaera phrygia	Regent Honeyeater	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Bird	Psittacidae	Cyclopsitta diophthalma coxeni	Coxen's Fig-Parrot	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Bird	Psittacidae	Lathamus discolor	Swift Parrot	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Bird	Strigidae	Ninox connivens	Barking Owl	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Bird	Strigidae	Ninox strenua	Powerful Owl	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Bird	Tytonidae	Tyto novaehollandiae	Masked Owl	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Bird	Vespertilionidae	Myotis macropus	Southern Myotis	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Animal	Gastropod	Camaenidae	Thersites mitchellae	Mitchell's Rainforest Snail	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	3
Animal	Insect	Noctuidae	Phyllodes imperialis southern subspecies	Southern Pink Underwing Moth	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Insect	Nymphalidae	Argynnis hyperbius	Laced Fritillary	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Insect	Petaluridae	Petalura litorea	Coastal Petaltail	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	3
Animal	Marsupial	Burramyidae	Cercartetus nanus	Eastern Pygmy-possum	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Marsupial	Dasyuridae	Phascogale tapoatafa	Brush-tailed Phascogale	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Marsupial	Dasyuridae	Planigale maculata	Common Planigale	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Marsupial	Petauridae	Petaurus norfolcensis	Squirrel Glider	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Marsupial	Phascolarctidae	Phascolarctos cinereus	Koala	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Animal	Reptile	Elapidae	Cacophis harriettae	White-crowned Snake	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Reptile	Elapidae	Hoplocephalus bitorquatus	Pale-headed Snake	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Reptile	Scincidae	Coeranoscincus reticulatus	Three-toed Snake-tooth Skink	Yes - Assumed present	3.8	1	0.3	Excluded	0.25	0.2	Excluded	Excluded	2
Animal	Tree	Meliaceae	Owenia cepiodora	Onion Cedar	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Climber	Apocynaceae	Cynanchum elegans	White-flowered Wax Plant	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Climber	Apocynaceae	Marsdenia longiloba	Slender Marsdenia	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Plant	Climber	Menispermaceae	Tinospora tinosporoides	Arrow-head Vine	No - Surveyed	-	-	-	-	-	-	-	-	1.5
Plant	Fern	Lindsaeaceae	Lindsaea brachypoda	Short-footed Screw Fern	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Fern	Lindsaeaceae	Lindsaea fraseri	Fraser's Screw Fern	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Fern	Marattiaceae	Angiopteris evecta	Giant Fern	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Fern	Polypodiaceae	Belvisia mucronata	Needle-leaf Fern	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Fern	Polypodiaceae	Drynaria rigidula	Basket Fern	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Grass	Poaceae	Arthraxon hispidus	Hairy Jointgrass	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Plant	Herb	Acanthaceae	Isoglossa eranthemoides	Isoglossa	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Plant	Herb	Doryanthaceae	Doryanthes palmeri	Giant Spear Lily	No - Habitat constraints	-	-	-	-	-	-	-	-	-
Plant	Herb	Orobanchaceae	Centranthera cochinensis	Swamp Foxglove	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	1
Plant	Herb	Rubiaceae	Oldenlandia galioides	Oldenlandia galioides	No - Surveyed	-	-	-	-	-	-	-	-	2

Plant/ Animal	Species Type	Family	Scientific Name	Common Name	Species Presence	PCT, Vegetation Zone & Value (Area (ha) or Count)								Biodiversity Risk Weighting
						Key - Shaded = Identified by BAM Calculator within the vegetation zone; Excluded = Excluded by assessor in accordance with Section 1.6.3.1								
						PCT 1064 Zone 1	PCT 1302 Zone 2	PCT 1302 Zone 3	PCT 1302 Zone 4	PCT 1569 Zone 5	PCT 1569 Zone 6	PCT 1235 Zone 7	PCT 1302 Zone 8	
Plant	Orchid	Orchidaceae	Dendrobium melaleucaphilum	Spider orchid	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Plant	Orchid	Orchidaceae	Geodorum densiflorum	Pink Nodding Orchid	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Plant	Orchid	Orchidaceae	Oberonia complanata	Yellow-flowered King of the Fairies	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Orchid	Orchidaceae	Peristeranthus hillii	Brown Fairy-chain Orchid	No - Surveyed	-	-	-	-	-	-	-	-	1.5
Plant	Orchid	Orchidaceae	Phaius australis	Southern Swamp Orchid	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Orchid	Orchidaceae	Sarcochilus weinthalii	Blotched Sarcochilus	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Sedge	Cyperaceae	Cyperus aquatilis	Water Nutgrass	Yes - Assumed present	3.8	1	0.3	Excluded	Excluded	Excluded	Excluded	Excluded	2
Plant	Sedge	Cyperaceae	Cyperus semifertilis	Missionary Nutgrass	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Shrub	Acanthaceae	Harnieria hygrophiloides	Harnieria hygrophiloides	No - Habitat constraints	-	-	-	-	-	-	-	-	
Plant	Shrub	Asteraceae	Ozothamnus vagans	Wollumbin Dogwood	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Casuarinaceae	Allocasuarina defungens	Dwarf Heath Casuarina	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Euphorbiaceae	Acalypha eremorum	Acalypha	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Fabaceae (Caesalpinioideae)	Senna acclinis	Rainforest Cassia	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Fabaceae (Faboideae)	Desmodium acanthocladum	Thorny Pea	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Fabaceae (Faboideae)	Sophora fraseri	Brush Sophora	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Myrtaceae	Gossia fragrantissima	Sweet Myrtle	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Phyllanthaceae	Phyllanthus microcladus	Brush Sauropus	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Rhamnaceae	Pomaderris notata	McPherson Range Pomaderris	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Shrub	Urticaceae	Dendrocnide moroides	Gympie Stinger	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Apocynaceae	Ochrosia moorei	Southern Ochrosia	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Argophyllaceae	Corokia whiteana	Corokia	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Cunoniaceae	Davidsonia jerseyana	Davidson's Plum	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Cunoniaceae	Davidsonia johnsonii	Smooth Davidson's Plum	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Ebenaceae	Diospyros mabacea	Red-fruited Ebony	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Ebenaceae	Diospyros yandina	Shiny-leaved Ebony	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Elaeocarpaceae	Elaeocarpus williamsianus	Hairy Quandong	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Euphorbiaceae	Fontainea australis	Southern Fontainea	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Fabaceae (Caesalpinioideae)	Cassia marksiana	Cassia marksiana	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Fabaceae (Mimosoideae)	Acacia bakeri	Marblewood	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Fabaceae (Mimosoideae)	Archidendron hendersonii	White Lace Flower	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Flacourtiaceae	Xylosma terrae-reginae	Queensland Xylosma	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Lauraceae	Cryptocarya foetida	Stinking Cryptocarya	Yes - Surveyed	Excluded	1 Plant	Excluded	Excluded	Excluded	Excluded	Excluded	Excluded	1.5
Plant	Tree	Lauraceae	Endiandra floydii	Crystal Creek Walnut	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Lauraceae	Endiandra hayesii	Rusty Rose Walnut	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Lauraceae	Endiandra muelleri subsp. bracteata	Green-leaved Rose Walnut	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Myrtaceae	Choricarpia subargentea	Giant Ironwood	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Myrtaceae	Syzygium hodgkinsoniae	Red Lilly Pilly	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Myrtaceae	Syzygium moorei	Durobby	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Primulaceae	Myrsine richmondensis	Ripple-leaf Muttonwood	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Proteaceae	Eidothea hardeniana	Nightcap Oak	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Proteaceae	Floydia praealta	Ball Nut	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Proteaceae	Grevillea hilliania	White Yiel Yiel	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Proteaceae	Hicksbeachia pinnatifolia	Red Boppel Nut	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Proteaceae	Macadamia tetraphylla	Rough-shelled Bush Nut	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Rubiaceae	Randia moorei	Spiny Gardenia	No - Surveyed	-	-	-	-	-	-	-	-	3

Plant/ Animal	Species Type	Family	Scientific Name	Common Name	Species Presence	PCT, Vegetation Zone & Value (Area (ha) or Count)								Biodiversity Risk Weighting
						Key - Shaded = Identified by BAM Calculator within the vegetation zone; Excluded = Excluded by assessor in accordance with Section 1.6.3.1								
						PCT 1064 Zone 1	PCT 1302 Zone 2	PCT 1302 Zone 3	PCT 1302 Zone 4	PCT 1569 Zone 5	PCT 1569 Zone 6	PCT 1235 Zone 7	PCT 1302 Zone 8	
Plant	Tree	Rutaceae	Acronychia littoralis	Scented Acronychia	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Rutaceae	Bosistoa transversa	Yellow Satinheart	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Rutaceae	Coatesia paniculata	Axe-Breaker	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Rutaceae	Melicope vitiflora	Coast Euodia	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Sapindaceae	Cupaniopsis serrata	Smooth Tuckeroo	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Sapindaceae	Diploglottis campbellii	Small-leaved Tamarind	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Sapindaceae	Lepiderema pulchella	Fine-leaved Tuckeroo	No - Surveyed	-	-	-	-	-	-	-	-	3
Plant	Tree	Sapotaceae	Niemeyera chartacea	Smooth-leaved Plum	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Sapotaceae	Niemeyera whitei	Rusty Plum, Plum Boxwood	No - Surveyed	-	-	-	-	-	-	-	-	2
Plant	Tree	Symplocaceae	Symplocos baeuerlenii	Small-leaved Hazelwood	No - Surveyed	-	-	-	-	-	-	-	-	2

Biodiversity Development Assessment Report

Tweed Valley Hospital

APPENDIX G. NSW LAND MANAGEMENT AND BIODIVERSITY CONSERVATION CORRESPONDENCE

Gina Minatel

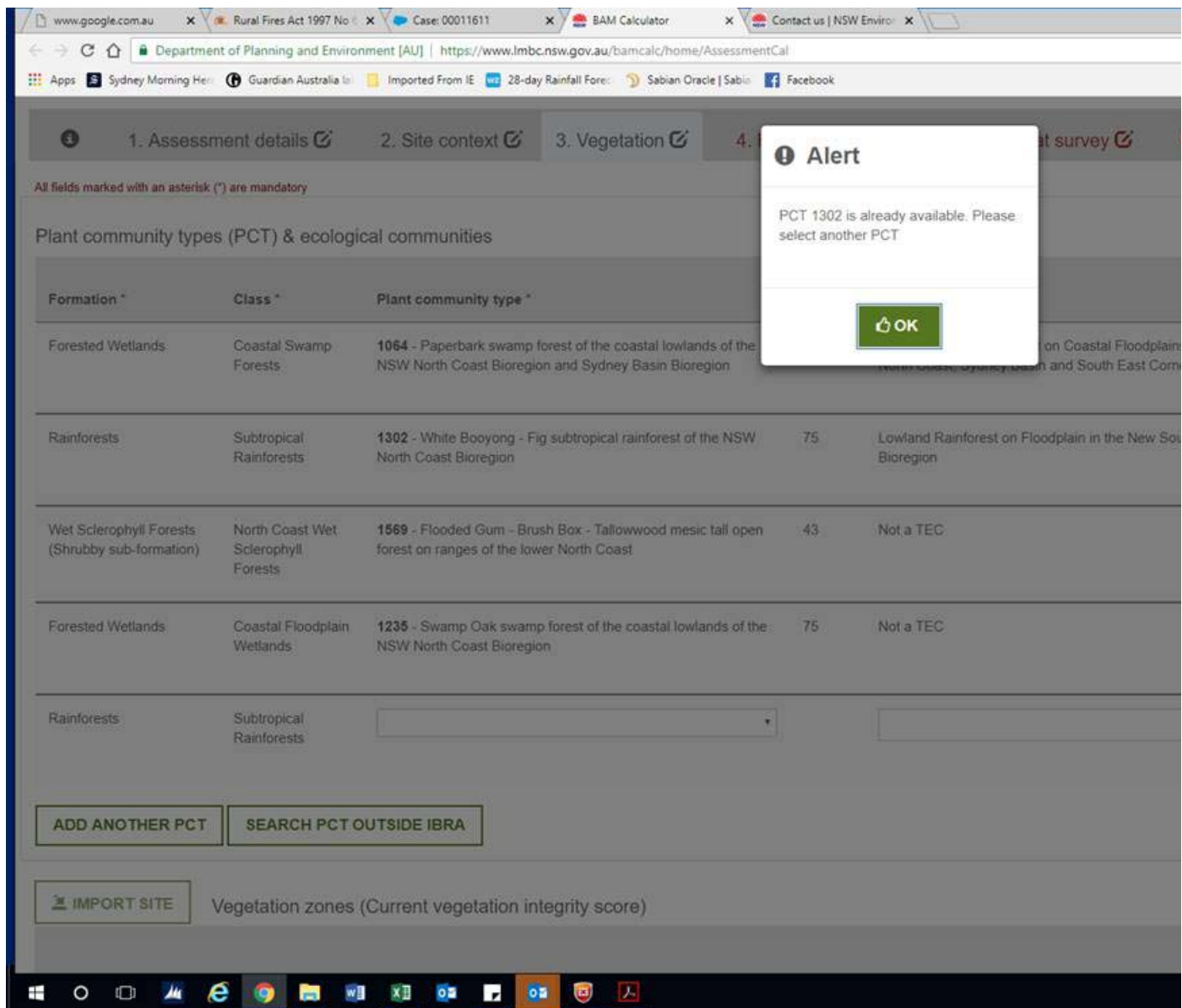
From: Damian Licari
Sent: Monday, 10 September 2018 12:35 PM
To: lmbc.support@environment.nsw.gov.au
Cc: Christina Maloney (Christina.Maloney@greencap.com.au)
Subject: Classification of PCT1302 as EEC in one vegetation zone and not EEC in another vegetation zone

Hi Support

- For an assessment that I am currently working on I have identified a remnant vegetation community as PCT1302 in one vegetation zone and have also classified this as an EEC.
- Elsewhere on the site there are a number of derived/secondary vegetation communities (i.e. windrows) in separate vegetation zones that I have made the decision the most likely PCT is also PCT1302. However, I do not agree with these windrows being classified as an EEC.
- However, the calculator does not allow me to have the same PCT being classified as an EEC and not an EEC.
- When I tried to add PCT1302 again to allow for vegetation zones that are in these windrows to be included (but not as an EEC) I get the error message below.
- Note PCT1302 can be two EECs. The same error applied.

Would it be possible to change this in the calculator quick smart? I am in the middle of some calculations for a State Significant Development that are due at the end of the week.

Regards
Damian



Damian Licari

Principal Consultant - Environment | Greencap

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Gina Minatel

From: Maria Avila <lmbc.support@environment.nsw.gov.au>
Sent: Monday, 10 September 2018 12:49 PM
To: Damian Licari
Subject: LMBC-2617 Classification of PCT1302 as EEC in one vegetation zone and not EEC in another vegetation zone

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Damian Licari,

Thank you for your inquiry to the Land Management and Biodiversity Conservation (LMBC) Contact Service Centre. We have begun processing your query and will provide you with a response shortly.

Please visit our website [Land Management and Biodiversity Conservation](#) for information that may also assist with your inquiry.

Alternatively, please contact us at 1800 931 717 Monday to Friday from 9:00 am to 4:00 pm (excluding public holiday).

LMBC Contact Service Centre
Conservation Programs Branch

T 1800 931 717

E lmbc.support@environment.nsw.gov.au 

W www.landmanagement.nsw.gov.au



LMBC Contact Service Centre, powered by [JIRA Service Desk](#), sent you this message.

From: Damian Licari
Sent: Wednesday, 12 September 2018 3:37 PM
To: lmbc.support@environment.nsw.gov.au
Cc: Christina Maloney (Christina.Maloney@greencap.com.au)
Subject: Ecosystem credit offset requirement for PCTs without direct impact
Attachments: BAM Calculator - 3. Vegetation tab - 12092018.pdf; CreditSummaryReport - Post method review - 12092018.xls; PaymentReport - Post method review - 12092018.pdf

Hi Support

Case - 00011608/BAAS18006/18/00011611.

Related ticket - LMBC-2617

Please refer to the above trouble ticket as this is an overlapping issue with that ticket. Note the most significant issue in the above trouble ticket is that PCT 1302 is a TEC on part of the site. I have also assigned PCT 1302 to windrows in Zone 4 and 8 as the most likely original PCT and in my professional opinion is not a TEC. The BAM calculator does not allow

I am having difficulty with the calculator which is calculating an offset requirement for PCTs which will not be directly impacted by proposed development. I now refer to the attached screen dump from tab 3. Vegetation:

1. Zone 1 PCT 1064 – TEC - To be retained
2. Zone 2 PCT 1302 – TEC - To be retained
3. Zone 3 PCT 1302 – TEC - To be retained
4. Zone 4 PCT 1302 – Not TEC - VI = 10.6 and does not require further assessment.
 - o Management zone Remove = 0.5 ha
 - o Management zone Retain = 0.1 ha
5. Zone 5 PCT 1569 – Not TEC - To be retained
6. Zone 6 PCT 1569 – Not TEC - To be retained
7. Zone 7 PCT 1235 - Not TEC - To be retained
8. Zone 8 PCT 1302 – Not TEC - VI = 16.8 and does not require further assessment
 - o Management zone Remove = 0.5 ha
 - o Management zone Retain = 0.2 ha

The attached Payment Report and Credit Summary Report both indicate a credit requirement for PCT 1064, 1302, 1235 and 1569. Also *Cryptocarya foetida* was recorded on site by survey in an area that is being retained. This species also indicates a credit requirement.

Of course I may have done something incorrectly! However, would you please review these reports as I am puzzled why there is a credit requirement for PCTs that will be retained.

Regards
Damian

Damian Licari

Principal Consultant - Environment | Greencap

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Gina Minatel

From: Janise Zamora <lmbc.support@environment.nsw.gov.au>
Sent: Thursday, 13 September 2018 8:49 AM
To: Damian Licari
Subject: LMBC-2655 Ecosystem credit offset requirement for PCTs without direct impact


Dear Damian Licari,

Thank you for your inquiry to the Land Management and Biodiversity Conservation (LMBC) Contact Service Centre. We have begun processing your query and will provide you with a response shortly.

Please visit our website [Land Management and Biodiversity Conservation](http://www.landmanagement.nsw.gov.au) for information that may also assist with your inquiry.

Alternatively, please contact us at 1800 931 717 Monday to Friday from 9:00 am to 4:00 pm (excluding public holiday).

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Biodiversity Development Assessment Report

Tweed Valley Hospital

APPENDIX H. PRESCRIBED IMPACT ASSESSMENT

Aspect	Project phase	Potential Impact	Mitigation	Timing	Responsibility	Risk before mitigation	Residual risk
Hydrology	Construction	Sediment run-off during construction. Sediment basin discharge water quality	Sediment and erosion management would be delivered in accordance with an approved Construction Environmental Management Plan (CEMP) that details safeguards and management measures in accordance with relevant guidelines for construction sites. Sediment barriers and sediment ponds will be constructed to control the quality of water released from the Site into the receiving environment. Erosion and sediment measures will be implemented as per the construction phase Erosion and Sediment Control Plan (ESCP). Construction phase erosion and sediment control measures shall achieve water quality objectives outlined in the Tweed Shire Council Development Design Specification - D7. Two pH dependent amphibians have been identified by the BAM Calculator as candidate threatened species (i.e. Wallum froglet <i>Crinia tinnula</i> , Wallum Froglet and Oonberrra frog <i>Litoria olongburensis</i>). The use of gypsum as a flocculant in the sediment basins may have an impact upon the above threatened amphibian species. Alternative commercially available flocculants that work effectively as a gypsum replacement that do not create the large increases in pH should be used.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	High	Very low
	Operation	Changes in water quality, water bodies and hydrological processes that sustain threatened species and threatened ecological communities	A stormwater drainage system will be constructed to convey stormwater runoff from the newly constructed, buildings and associated, roads, carparks and landscape areas. It will be designed to mimic natural flows to minimise future impact to the endangered ecological community in the receiving wetland. The details of the discharge characteristics will be determined at detail design stage, guided by advice from a suitably qualified ecologist. The water quality strategy for the Site will incorporate swales, enviropods, bioretention basins and extended detention basins. Ultimately the bulk of the stormwater will end up in an extended detention basin where it will settle and discharge to the receiving waters in a controlled manner. The water quality strategy for the Site is outlined in the Tweed Valley Hospital Development Design Report (Bonacci 2018). In accordance with the approved CEMP, stormwater management will be incorporated in landscaping, using Water Sensitive Urban Design (WSUD) principles and the use of landscaped areas for filtering runoff, swale drains and vegetated sediment basins. New plantings within rain gardens that both treat stormwater quality and contribute to providing a range of native habitat or 'moist corridors' across the site (Turf 2018). In accordance with section 9.4.2 of the BAM, a Biodiversity Management Plan will include measures to monitor water quality in the receiving environment and will include water quality objectives which in the event of exceedances will trigger investigation and adaptive management actions. Water quality monitoring is to be undertaken before, during and after construction and periodically during operations. Water quality results shall be compared against water quality guidelines for ecosystem health as well as monitoring for change (continuous increases or decreases) over time. Any continuous changes in water quality shall trigger investigation and adaptive management actions. Construction phase stormwater quality control measures shall achieve water quality objectives outlined in the Tweed Shire Council Development Design Specification - D7 (TSC 2016).	During operations	Proponent	High	Very low
Hydrogeology	Construction	Changes in water quality, water bodies and hydrological processes that sustain threatened species and threatened ecological communities	All works and associated activities are to be delivered in accordance with an approved CEMP and sub plans, including a Soil and Water Management Plan, in order to avoid any impacts on groundwater, particularly during piling and excavation activities.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Medium	Very low
	Operation	Change in ground water base flow to wetland and water bodies that sustain threatened species and threatened ecological communities.	While no site specific groundwater modelling data was available to the time of writing this report, the level that groundwater encountered in the bores which sit upslope from the wetlands is at a higher elevation than the wetlands, indicating that there is potential for groundwater to influence the wetlands and provide some base flow, however the extent to which groundwater influence flows and water quality within the wetlands is unknown based on available site information. It is expected that any reduction of groundwater recharge due to the development footprint of the hospital would be mitigated through recharge that would occur through the proposed WSUD measures such as: rain gardens, swales, car park plantings to reduce impervious surfaces, managing stormwater and ground water recharge through landscaping. In accordance with section 9.4.2 of the BAM, a Biodiversity Management Plan will include measures to monitor ground water quality on the Site and will include water quality objectives which in the event of exceedances will trigger investigation and adaptive management actions.	During operations	Proponent	Medium	Very low
Traffic	Construction	Vehicle strikes	All works and associated activities are to be delivered in accordance with an approved CEMP and sub plans, including a Biodiversity Management Plan, Traffic Control Plan and Access and Movement Plan. Traffic will be restricted to the southern portion of the Site where the project footprint is which is approximately 62m from the intact remnant native vegetation. Construction traffic must maintain low vehicle speeds and operators shall take care and be aware of any wildlife that may be in the area. Should wildlife enter the construction footprint, a suitable qualified fauna handler should be notified and actions taken in accordance with the construction EMP.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation	Vehicle strikes	The proposed development will widen the access road (Cudgen Road) and traffic volumes will incrementally increase 5007 vehicles per day along Cudgen Road and Turnock Street (Bitzios 2018). There is an existing wildlife fence owned and managed by TSC that is located adjacent to Zones 1, 2 and 6 (Figure 11). The wildlife fence is located adjacent to the koala habitat the Site (Zone 6). However, this fence is poorly maintained and would currently allow arboreal mammals such as koala <i>Phascolarctos cinereus</i> to cross the fence. While the fence in its current state of maintenance provides connectivity between areas of habitat, it also puts them at risk of vehicle strike. In general the wildlife fence affords good protection for small ground dwelling mammals. Turnock Street currently creates a barrier in habitat connectivity of the overall patch of native vegetation in the Site area. In order to mitigate the potential of increase in wildlife vehicle strikes it is recommended that a wildlife crossing zone is installed where the road passes through the Paperbark swamp area along Turnock Street (between the roundabout and Cudgen road). This crossing would be triggered by car movement and would assist species to move across the road barrier (hostile gap). The following wildlife protection and traffic calming measures on the access road are recommended to reduce the risk of vehicle strike on wildlife: <ul style="list-style-type: none"> Install roadside street lighting in accordance with the design standards <ul style="list-style-type: none"> On the uphill and downhill approaches to the road install: <ul style="list-style-type: none"> Two 60 kilometre an hour speed limit signs and two wildlife warning signs (e.g. 'Wildlife Down to Dusk' sign or similar) or two signs that combine both messages Two permanent radar speed signs that display vehicle speed on approach or display a warning when the vehicle speed on approach is greater than the speed limit In accordance with section 9.4.2 of the BAM, a Biodiversity Management Plan will incorporate a Fauna Management Plan, including measures to monitor species mortality and where necessary will outline thresholds for threatened species mortality based on current literature which will trigger investigation and adaptive management actions.	During operations	Proponent	Low	Very low

Aspect	Project phase	Potential Impact	Mitigation	Timing	Responsibility	Risk before mitigation	Residual risk
Aviation	Operation	Aircraft strike	<p>The proposed development includes a helipad on the top of the main building which will result in low level air traffic in the vicinity of the sites. There is a risk that threatened species of birds and bats (in particular local populations of the threatened grey-headed flying-fox <i>Pteropus poliocephalus</i>) may be flying across the Site in remnant vegetation that is located at the level of the floodplain at the time of aircraft operation.</p> <p>The helipad will be situated on the top of the multiple level hospital facility that is constructed on a ridge above the level of the floodplain. As such this location is considered to be above the flight path altitude of any birds or bats and will therefore not interrupt any local migration or cause death through aircraft strike.</p> <p>At peak operation it is expected that aircraft movements would amount to six movements per week with an estimated flight time of 2 hours per annum. The nature of aircraft operation for the site are such that the majority of aviation movements are outbound (i.e. not inbound transport of trauma patients). Consequently, most outbound patient transfers would take place during the day when clinicians are available to make transport decisions. This would therefore avoid aircraft movements in the peak periods of flying fox activity in the hours preceding dusk and dawn. As a consequence the probability of aircraft strike on flying foxes is negligible.</p> <p>As a mitigation measure, aviation operations for the development will be conducted in accordance with an approved Aviation Operations Manual. This manual will identify areas of bird and flying fox activity such as the Elrond Drive and Kingscliff Library flying fox camps that are located within 1km of the Site (Ecosure 2018, Greencap 2018). These details will also be incorporated into the Enroute Supplement Australia (ERSA) published by Aircservices Australia. The ERSA is a publication which contains information vital for planning a flight and for in flight operations for the aircraft pilot. The location of known flying fox camps would be included as either an 'avoid area' or a 'fly neighbourly' area.</p> <p>In accordance with section 9.4.2 of the BAM, a Biodiversity Management Plan will incorporate a Wildlife Management Plan with measures to monitor wildlife at the Site, including species mortality resulting from aircraft movement. The plan will outline objectives and thresholds for threatened species mortality which in the event of exceedances will trigger investigation and adaptive management actions. Adaptive management actions may include actions such as auditory repellents, visual deterrents and physical barriers where birds, bats and other animals are an issue.</p>	During operations	Proponent	Low	Very low
Removal of native vegetation	Construction	Death or injury to wildlife	<p>All works and associated activities are to be delivered in accordance with a CEMP and sub plans, including a Biodiversity Management Plan, Traffic Control Plan and a Access and Movement Plan.</p> <p>To ensure the safety of any native fauna occupying trees and vegetation proposed for removal, during vegetation clearing works, a suitably qualified and experienced person shall be present as a fauna spotter-catcher to supervise the tree removal.</p> <ul style="list-style-type: none"> On the day of clearing and prior to any clearing taking place, all trees within 30 metres of those trees to be cleared are to be inspected for the presence of native fauna by an experienced fauna spotter-catcher <ul style="list-style-type: none"> During tree removal and major earth works a fauna spotter-catcher needs to be used at a minimum of one operator per machine. The fauna spotter-catcher must not be involved in the vegetation clearing works whilst responsible for identifying fauna present on the site and will remain on site during any vegetation clearing works to ensure that any tree occupied by a fauna is not accidentally cleared or interfered with Any uninjured native fauna detected during the tree removal shall be rescued and relocated into an area of appropriate habitat that is nearby, but outside of the development footprint. <ul style="list-style-type: none"> Any injured native fauna detected shall be rescued and transferred to a local veterinarian for treatment and/or WIRES for rehabilitation. <p>Should koalas be found on the Site during vegetation clearing works and/or earthworks, tree clearing works and/or earthworks must be temporarily suspended within a range of 30 metres from any tree which is occupied by a koala.</p> <ul style="list-style-type: none"> Works are to be avoided in any area between the koala and the nearest areas of habitat to allow the animal to move to adjacent undisturbed areas. Works must not resume until the koala has moved from the tree of its own volition. <p>In order to minimise direct impacts on ground dwelling and arboreal fauna, any earthworks conducted to clear rocks and trees along the windrows (zone 4) shall have a suitably qualified fauna spotter-catcher as outlined above.</p>	Duration of vegetation clearing works and/or earthworks	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
Habitat; established home range and connectivity	Construction	<p>Removal of windrow vegetation in Zone 4 and 8.</p> <p>Removal of wood or rocks along the windrows, particularly in Zone 4.</p>	<p>All works and associated activities are to be delivered in accordance with an approved CEMP and sub plans, including a Biodiversity Management Plan.</p> <p>In order to preserve and enhance biodiversity values, including threatened species habitat and connections for foraging and dispersal the following proposed features have been incorporated into the Tweed Valley Hospital Landscape Masterplan Report (Turf 2018):</p> <p>Landscape plan Zone 2</p> <ul style="list-style-type: none"> New plantings along the northern embankment that provide stepping stone habitats at a site scale to include: <ul style="list-style-type: none"> Locally indigenous native rainforest trees, shrubs and groundcovers Inclusion of habitat features such as rocks and logs that have been salvaged from other areas of the Site (cleared windrows) that will create habitat for ground dwelling species <p>Landscape plan Zone 6 and 7</p> <ul style="list-style-type: none"> New plantings within rain gardens, swale drains and sediment basins that both treat stormwater quality and contribute to providing a range of native habitat across the site <ul style="list-style-type: none"> Locally indigenous native trees Water adapted ground covers (e.g. from the Cyperaceae, Juncaceae and Poaceae families) are to be planted in rain gardens. <p>Landscape plan Zone 10</p> <ul style="list-style-type: none"> Retention and enhancement of established windrows (vegetation buffers): <ul style="list-style-type: none"> Minimum 10m wide vegetated buffers Augment existing vegetation buffers to increase biodiversity values, including habitat connectivity Immediate removal of High Threat Exotic weeds that have self-sown within the windrows (e.g. camphor laurel <i>Cinnamomum camphora</i>, small leaved privet <i>Ligustrum sinense</i>, umbrella tree <i>Schefflera actinophylla</i>) <ul style="list-style-type: none"> Staged removal of slash pine <i>Pinus elliotii</i> Planting the understory of windrows with locally indigenous native species <p>In accordance with section 9.4.2 of the BAM, a Biodiversity Management Plan will incorporate a Vegetation Management Plan with measures to monitor vegetation at the Site, including objectives and thresholds which in the event of exceedances will trigger investigation and adaptive management actions.</p>	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Medium	Low

Aspect	Project phase	Potential Impact	Mitigation	Timing	Responsibility	Risk before mitigation	Residual risk
	Operation	Decrease in biodiversity values including connectivity and movement of threatened species that maintains their lifecycle	<p>All works and associated activities are to be delivered in accordance with an approved CEMP and sub plans, including a Biodiversity Management Plan.</p> <p>Weed removal shall be undertaken to preserve and enhance the current biodiversity values in the remnant native vegetation areas at the Site, in particular areas of remnant White Booyong - Fig subtropical rainforest, Paperbark swamp and Flooded Gum forest. Weed removal will include:</p> <ul style="list-style-type: none"> Removal of an exotic grassland monoculture composed of barnier grass <i>Pennisetum purpureum</i> located amongst derived and remnant native vegetation in the northern section of the Site (Zone 9) and revegetation with appropriate native rainforest species Currently there is a <i>Salvinia molesta</i> infestation in the dam located in the central northern section of the Site. This dam would likely overflow during high intensity rainfall events and it is likely that this would pose a risk to the spread of this High Threat Exotic into downstream freshwater bodies. Decommissioning of the dam has been recommended Removal of weeds including alexandra palms <i>Archontophoenix alexandrae</i>, morning glory <i>Ipomea caerica</i> and Singapore daisy <i>Sphagneticola trilobata</i> in the remnant native vegetation. <p>In accordance with section 9.4.2 of the BAM, a Biodiversity Management Plan will set out provisions for the ecological restoration, rehabilitation and/or ongoing maintenance of native vegetation habitat on or adjacent to the development Site. Actions will be undertaken in both construction (see above) and operations phases.</p>	During operations	Proponent	Medium	Low
Fire	Operation	Risk of increased fire regime on fire-sensitive sub-tropical rainforest and Paperbark swamp vegetation	Landscaping within Landscape Zone 2 (Turf 2018) largely coincides with the mandatory 62m Asset Protection Zone (APZ) for the development. Consequently, all plantings will be designed and maintained in accordance with current published guidelines (RFS 2006, 2007) and in consultation with the NSW Rural Fire Services, as detailed in the Tweed Valley Hospital Landscape Masterplan Report (Turf 2018).	During operations	Proponent	Medium	Low

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APPENDIX I. INDIRECT IMPACT ASSESSMENT

Aspect	Project phase	Potential Impact	Mitigation	Timing	Responsibility	Risk before Mitigation	Risk After Mitigation
Noise	Construction	Noise during construction due to construction works and construction traffic. Potential disruption of threatened species or reduced viability of adjacent habitat	All works and associated activities are to be delivered in accordance with an approved Construction Environmental Management Plan (CEMP) and sub plans, including a Noise Mitigation Plan. Noise during construction will be mitigated by applying appropriate safeguards and management measures before works commence including daily timing of construction activities and such as avoiding night works as much as possible in accordance with the Interim Noise Guidelines (2009). Furthermore, construction will be restricted to the southern portion of the Site where the project footprint is at least 62 m (the wide of the proposed Asset Protection Zone for bushfire protection) from the remnant native vegetation.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation	Noise during operations including traffic. Potential disruption of threatened species or reduced viability of adjacent habitat	Noise levels during operations would be delivered in accordance with an approved Operational Environmental Management Plan (OEMP) that details safeguards and management measures in accordance with the <i>POEO (Noise Control) Regulation 2017</i> or any other relevant Tweed Shire Council noise regulation.	During operations	Proponent	Low	Very low
Vibration	Construction	Vibration during construction due to construction works and construction traffic. Potential disruption of threatened species or reduced viability of adjacent habitat	All works and associated activities are to be delivered in accordance with an approved CEMP and sub plans, including a Vibration Mitigation Plan. Vibration during construction will be mitigated by applying appropriate safeguards and management measures before works commence including daily timing of construction activities and such as avoiding night works as much as possible in accordance. Furthermore, construction will be restricted to the southern portion of the Site where the project footprint is at least 62 m (the wide of the proposed Asset Protection Zone for bushfire protection) from the remnant native vegetation.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation	Vibration during operations including traffic. Potential disruption of threatened species or reduced viability of adjacent habitat	Vibration levels (if any) during operations would be managed in accordance with an approved OEMP that details safeguards and management measures in accordance with relevant standards and guidelines.	During operations	Proponent	Low	Very low
Light spill	Construction	Light spill during construction due to construction lighting and construction traffic. Potential disruption of threatened species or reduced viability of adjacent habitat	Light sensitive species are presumed unlikely to be present at the Site. Construction will be restricted to the southern portion of the Site where the project footprint is at least 62 m (the wide of the proposed Asset Protection Zone for bushfire protection) from the remnant native vegetation. All works and associated activities would be delivered in accordance with an approved CEMP that details applicable safeguards and management measures before works commence including daily timing of construction activities such as avoiding night works as much as possible and directing lights away from remnant vegetation.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation	Light spill during operations Potential disruption of threatened species or reduced viability of adjacent habitat	The Site does not contain habitat for threatened species that are drawn to light (i.e. turtles) that could be adversely impacted by light spill. The development will be located at least 62m (the width of the APZ) from vegetation (Zones 1,2,3). Provision of lighting would be delivered in accordance with an approved CEMP and any relevant standards and guidelines, in particular local hospitals.	During operations	Proponent	Low	Very low
Visual Amenity	Construction	Rubbish and waste retained onsite attracting native fauna.	Activities on the Site will be managed in accordance with the approved CEMP, and designed to limit the amount of rubbish and waste onsite through good housekeeping practices.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation	Rubbish and waste retained onsite attracting native fauna.	Activities on the Site will be managed in accordance with the approved OEMP, and designed to limit the amount of rubbish and waste onsite through good housekeeping practices.	During operations	Proponent	Low	Very low
Dust	Construction	Inadvertent impacts of dust deposition on native vegetation or threatened species Potential disruption of threatened species or reduced viability of adjacent habitat	Dust levels during operations would be managed in accordance with an approved CEMP that details safeguards and management measures in accordance with relevant guidelines for construction sites, including: <ul style="list-style-type: none"> Daily monitoring of dust generated by construction activities. Dust suppression measures (setting maximum speed limits and application of dust suppressants) will be implemented during construction works to limit dust on site Commence revegetation as soon as practicable to minimise areas likely to create dust 	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation	Inadvertent impacts of dust deposition on native vegetation or threatened species Potential disruption of threatened species or reduced viability of adjacent habitat	Adaptive dust monitoring programs to control air quality, in accordance with the approved OEMP.	During operations	Proponent	Low	Very low

Aspect	Project phase	Potential Impact	Mitigation	Timing	Responsibility	Risk before Mitigation	Risk After Mitigation
Retained native vegetation	Construction	Damage or removal of retained native vegetation Unplanned loss of habitat	<p>All works and associated activities are to be delivered in accordance with an approved CEMP and sub plans, including a Biodiversity Management Plan. All existing trees and areas of native vegetation not identified for removal on approved plans of the proposed development shall be protected from damage during works. This protection shall consist of:</p> <ul style="list-style-type: none"> Establishing a Tree Protection Zone in accordance with AS 4970-2009 Protection of trees on development sites around native trees and vegetation adjacent to the construction footprint that are to be retained on the site <ul style="list-style-type: none"> Erect temporary 1800mm high protective fencing, securely installed beneath the outer canopy of any tree to be retained Trees and vegetation may be fenced off in clusters where it is not practical to fence off individual trees There shall be no stockpiling, storing materials, parking machinery, washing machinery or changes to existing soil levels within the fenced areas. <p>Specific trees identified that must be retained are:</p> <ul style="list-style-type: none"> <i>Ficus benjamina</i> tree located at the existing Site entry 	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
Non-native vegetation	Operation	Introduction of weeds to the Site	<p>In order to avoid the introduction or spread of weeds on the Site, weed hygiene practices in accordance with an approved CEMP and sub plans, including a Biodiversity Management Plan:</p> <ul style="list-style-type: none"> Mulch generated from exotic trees and/or other weed species that have been cleared shall not be used on site. The mulch shall be removed from the site and disposed of in accordance with legislative requirements. 	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
Bushfire / Changing Fire Regimes	Construction	Changes to existing fire regime and / or increased prevalence of fire	Bushfire impacts will be identified and managed through bushfire impact assessment and associated management plans.	Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low
	Operation			Duration of construction works	Project manager, relevant contractor, construction staff and site personnel	Low	Very low



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APPENDIX J. RISK MATRIX

		Probability				
		A	B	C	D	E
Maximum reasonable consequence	1	CR	CR	HR	HR	MR
	2	CR	HR	HR	MR	LR
	3	HR	HR	MR	LR	LR
	4	HR	MR	LR	LR	LR
	5	MR	LR	LR	LR	LR

CRITICAL	CR
HIGH RISK	HR
MODERATE RISK	MR
LOW RISK	LR

Consequence criteria: Impacts on threatened species and/or threatened species habitat
<p>1. CRITICAL</p> <ul style="list-style-type: none"> Impact – Severe; Spatial scale – Widespread; Time scale – Long-term. Requires consideration of whether impacts may result in a Serious and Irreversible Impact that may lead to local extinction.
<p>2. MAJOR</p> <ul style="list-style-type: none"> Impact – Moderate; Spatial scale – Moderate to widespread; Time scale – Mid- to long-term. May result in temporary or long-term damage.
<p>3. MODERATE</p> <ul style="list-style-type: none"> Impact – Moderate; Spatial scale – Local to moderate; Time scale – Short- to mid-term. May result in a moderate, temporary impact. However, it may be difficult to rehabilitate impact and may have negative implications on the ecosystem.
<p>4. MINOR</p> <ul style="list-style-type: none"> Impact – Minor; Spatial scale – Local; Time scale – Short-term. May result in minor impacts that are relatively easily rehabilitated. Not likely to have negative implications on the ecosystem.
<p>5. NEGLIGIBLE</p> <ul style="list-style-type: none"> Impact – Minor; Time scale – Short-term with no lasting effect. May result in negligible impacts that can be categorised as temporary, local and reversible.
Likelihood criteria
<p>A. ALMOST CERTAIN</p> <ul style="list-style-type: none"> Very high or certain probability that impact will occur or event is of a continuous nature.
<p>B. LIKELY</p> <ul style="list-style-type: none"> Likely probability that impact will occur or event is frequent (frequency 1-5 years).
<p>C. MODERATE</p> <ul style="list-style-type: none"> Moderate probability that impact will occur or event is infrequent (frequency 5-20 years).
<p>D. UNLIKELY</p> <ul style="list-style-type: none"> Low probability that impact will occur or event is very infrequent (frequency 100 years).
<p>E. REMOTE</p> <ul style="list-style-type: none"> Very low probability that impact will occur or may occur under extenuating circumstances. Event is very rare of stochastic in nature (frequency 1000 years)



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APPENDIX K. CREDIT SUMMARY REPORT

BAM Credit Summary Report

Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00011608/BAAS18006/18/00011611	Tweed Valley Hospital	24/02/2018
Assessor Name	Report Created	BAM Data version *
Damian Licari	12/09/2018	3
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	
BAAS18006	Biodiversity Assessment Report	

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

Zone	Vegetation zone	Vegetation	Area (ha)	Constant	Species sensitivity to gain class (for BRW)	Biodiversity risk	Candidate SAI	Ecosystem credits
Flooded Gum - Brush Box - Tallowwood mesic tall open forest on ranges of the lower North Coast								
5	1569_Z5_Derived	0.0	0.5	0.25		1.00		1
6	1569_Z6_Derived	3.0	0.2	0.25		1.00		1
							Subtotal	2
Paperbark swamp forest of the coastal lowlands of the NSW North Coast Bioregion and Sydney Basin Bioregion								
1	1064_Z1_Moderat	0.1	3.8	0.25	High Sensitivity to Potential Gain	2.00	TRUE	1
							Subtotal	1

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Swamp Oak swamp forest of the coastal lowlands of the NSW North Coast Bioregion							
7	1235_Z7_Derived	0.0	0.1	0.25	Moderate Sensitivity to Potential Gain	1.75	1
						Subtotal	1
White Booyong - Fig subtropical rainforest of the NSW North Coast Bioregion							
2	1302_Z2_Moderat	0.0	1.0	0.25	High Sensitivity to Potential Gain	2.00	1
3	1302_Z3_Low	0.0	0.3	0.25	High Sensitivity to Potential Gain	2.00	1
4	1302_Z4_Derived	8.8	0.6	0.25		1.50	0
8	1302_Z8_Derived	12.0	0.7	0.25		1.50	3
						Subtotal	5
						Total	9

Species credits for threatened species

Vegetation zone name	Habitat condition (HC)	Area (ha) / individual (HL)	Constant	Biodiversity risk weighting	Candidate SAI	Species credits
<i>Anthochaera phrygia</i> / Regent Honeyeater (Fauna)						
1064_Z1_Moderate	0.1	3.8	0.25	3	True	0
1302_Z2_Moderate	0.0	1	0.25	3	True	0
1302_Z3_Low	0.0	0.3	0.25	3	True	0
1569_Z5_Derived	0.0	0.25	0.25	3	True	0
1569_Z6_Derived	3.0	0.2	0.25	3	True	0
					Subtotal	0

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<i>Argynnis hyperbius / Laced Fritillary (Fauna)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	3 True		0
1302_Z2_Moderate	0.0	1	0.25	3 True		0
1302_Z3_Low	0.0	0.3	0.25	3 True		0
1569_Z5_Derived	0.0	0.25	0.25	3 True		0
1569_Z6_Derived	3.0	0.2	0.25	3 True		0
				Subtotal		0
<i>Arthraxon hispidus / Hairy Jointgrass (Flora)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	2 False		0
1302_Z2_Moderate	0.0	1	0.25	2 False		0
1302_Z3_Low	0.0	0.3	0.25	2 False		0
				Subtotal		0
<i>Cacophis harriettae / White-crowned Snake (Fauna)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	2 False		0
1302_Z2_Moderate	0.0	1	0.25	2 False		0
1302_Z3_Low	0.0	0.3	0.25	2 False		0
1569_Z5_Derived	0.0	0.25	0.25	2 False		0
1569_Z6_Derived	3.0	0.2	0.25	2 False		0
				Subtotal		0
<i>Calyptorhynchus lathami / Glossy Black-Cockatoo (Fauna)</i>						

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1064_Z1_Moderate	0.1	3.8	0.25	2 N/A	0
1302_Z2_Moderate	0.0	1	0.25	2 N/A	0
1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
Subtotal					0
<i>Centranthera cochinchinensis</i> / Swamp Foxglove (Flora)					
1064_Z1_Moderate	0.1	3.8	0.25	1 N/A	0
1302_Z2_Moderate	0.0	1	0.25	1 N/A	0
1302_Z3_Low	0.0	0.3	0.25	1 N/A	0
Subtotal					0
<i>Cercartetus nanus</i> / Eastern Pygmy-possum (Fauna)					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
Subtotal					0
<i>Chalinolobus dwyeri</i> / Large-eared Pied Bat (Fauna)					
1064_Z1_Moderate	0.1	3.8	0.25	3 True	0
1302_Z2_Moderate	0.0	1	0.25	3 True	0
1302_Z3_Low	0.0	0.3	0.25	3 True	0

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1569_Z5_Derived	0.0	0.25	0.25	3 True	0
1569_Z6_Derived	3.0	0.2	0.25	3 True	0
				Subtotal	0
<i>Coeranoscincus reticulatus / Three-toed Snake-tooth Skink (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
				Subtotal	0
<i>Crinia tinnula / Wallum Froglet (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	1.5 False	0
				Subtotal	0
<i>Cryptocarya foetida / Stinking Cryptocarya (Flora)</i>					
1302_Z2_Moderate	N/A	1	0.25	1.5 False	2
				Subtotal	2
<i>Cyclopsitta diophthalma coxeni / Coxen's Fig-Parrot (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	3 True	0
1302_Z2_Moderate	0.0	1	0.25	3 True	0
1302_Z3_Low	0.0	0.3	0.25	3 True	0

BAM Credit Summary Report

1569_Z5_Derived	0.0	0.25	0.25	3 True	0
1569_Z6_Derived	3.0	0.2	0.25	3 True	0
Subtotal					0
<i>Cyperus aquatilis / Water Nutgrass (Flora)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
Subtotal					0
<i>Dendrobium melaleucaphilum / Spider orchid (Flora)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
Subtotal					0
<i>Geodorum densiflorum / Pink Nodding Orchid (Flora)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
Subtotal					0
<i>Haliaeetus leucogaster / White-bellied Sea-Eagle (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 N/A	0

BAM Credit Summary Report

1302_Z2_Moderate	0.0	1	0.25	2 N/A	0
1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
1569_Z5_Derived	0.0	0.25	0.25	2 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	2 N/A	0
Subtotal					0
<i>Hieraaetus morphnoides / Little Eagle (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	1.5 N/A	0
1302_Z2_Moderate	0.0	1	0.25	1.5 N/A	0
1302_Z3_Low	0.0	0.3	0.25	1.5 N/A	0
1569_Z5_Derived	0.0	0.25	0.25	1.5 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	1.5 N/A	0
Subtotal					0
<i>Hoplocephalus bitorquatus / Pale-headed Snake (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
Subtotal					0
<i>Isoglossa eranthemoides / Isoglossa (Flora)</i>					

BAM Credit Summary Report

1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
Subtotal					0
<i>Lathamus discolor / Swift Parrot (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	3 True	0
1302_Z2_Moderate	0.0	1	0.25	3 True	0
1302_Z3_Low	0.0	0.3	0.25	3 True	0
1569_Z5_Derived	0.0	0.25	0.25	3 True	0
1569_Z6_Derived	3.0	0.2	0.25	3 True	0
Subtotal					0
<i>Litoria brevipalmata / Green-thighed Frog (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	1.5 False	0
1302_Z2_Moderate	0.0	1	0.25	1.5 False	0
1302_Z3_Low	0.0	0.3	0.25	1.5 False	0
Subtotal					0
<i>Litoria ongburensis / Olongburra Frog (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	1.5 False	0
1302_Z2_Moderate	0.0	1	0.25	1.5 False	0
1302_Z3_Low	0.0	0.3	0.25	1.5 False	0

BAM Credit Summary Report

						Subtotal	0
<i>Lophoictinia isura / Square-tailed Kite (Fauna)</i>							
1064_Z1_Moderate	0.1	3.8	0.25	1.5	N/A		0
1302_Z2_Moderate	0.0	1	0.25	1.5	N/A		0
1302_Z3_Low	0.0	0.3	0.25	1.5	N/A		0
1569_Z5_Derived	0.0	0.25	0.25	1.5	N/A		0
1569_Z6_Derived	3.0	0.2	0.25	1.5	N/A		0
						Subtotal	0
<i>Marsdenia longiloba / Slender Marsdenia (Flora)</i>							
1064_Z1_Moderate	0.1	3.8	0.25	2	False		0
1302_Z2_Moderate	0.0	1	0.25	2	False		0
1302_Z3_Low	0.0	0.3	0.25	2	False		0
						Subtotal	0
<i>Miniopterus australis / Little Bentwing-bat (Fauna)</i>							
1064_Z1_Moderate	0.1	3.8	0.25	3	True		0
1302_Z2_Moderate	0.0	1	0.25	3	True		0
1302_Z3_Low	0.0	0.3	0.25	3	True		0
1569_Z5_Derived	0.0	0.25	0.25	3	True		0
1569_Z6_Derived	3.0	0.2	0.25	3	True		0
						Subtotal	0

BAM Credit Summary Report

<i>Miniopterus schreibersii oceanensis / Eastern Bentwing-bat (Fauna)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	3 True		0
1302_Z2_Moderate	0.0	1	0.25	3 True		0
1302_Z3_Low	0.0	0.3	0.25	3 True		0
1569_Z5_Derived	0.0	0.25	0.25	3 True		0
1569_Z6_Derived	3.0	0.2	0.25	3 True		0
					Subtotal	0
<i>Mixophyes iteratus / Giant Barred Frog (Fauna)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	2 False		0
1302_Z2_Moderate	0.0	1	0.25	2 False		0
1302_Z3_Low	0.0	0.3	0.25	2 False		0
					Subtotal	0
<i>Myotis macropus / Southern Myotis (Fauna)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	2 False		0
1302_Z2_Moderate	0.0	1	0.25	2 False		0
1302_Z3_Low	0.0	0.3	0.25	2 False		0
					Subtotal	0
<i>Ninox connivens / Barking Owl (Fauna)</i>						
1064_Z1_Moderate	0.1	3.8	0.25	2 N/A		0
1302_Z2_Moderate	0.0	1	0.25	2 N/A		0

BAM Credit Summary Report

1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
1569_Z5_Derived	0.0	0.25	0.25	2 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	2 N/A	0
Subtotal					0
<i>Ninox strenua / Powerful Owl (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 N/A	0
1302_Z2_Moderate	0.0	1	0.25	2 N/A	0
1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
1569_Z5_Derived	0.0	0.25	0.25	2 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	2 N/A	0
Subtotal					0
<i>Pandion cristatus / Eastern Osprey (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	1.5 N/A	0
1302_Z2_Moderate	0.0	1	0.25	1.5 N/A	0
1302_Z3_Low	0.0	0.3	0.25	1.5 N/A	0
1569_Z5_Derived	0.0	0.25	0.25	1.5 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	1.5 N/A	0
Subtotal					0
<i>Petalura litorea / Coastal Petaltail (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	3 True	0

BAM Credit Summary Report

1302_Z2_Moderate	0.0	1	0.25	3 True	0
1302_Z3_Low	0.0	0.3	0.25	3 True	0
1569_Z5_Derived	0.0	0.25	0.25	3 True	0
1569_Z6_Derived	3.0	0.2	0.25	3 True	0
Subtotal					0
<i>Petaurus norfolcensis / Squirrel Glider (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
Subtotal					0
<i>Phascogale tapoatafa / Brush-tailed Phascogale (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
Subtotal					0
<i>Phascolarctos cinereus / Koala (Fauna)</i>					

BAM Credit Summary Report

1064_Z1_Moderate	0.1	3.8	0.25	2 N/A	0
1302_Z2_Moderate	0.0	1	0.25	2 N/A	0
1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
Subtotal					0
<i>Phyllodes imperialis southern subspecies / Southern Pink Underwing Moth (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
Subtotal					0
<i>Planigale maculata / Common Planigale (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 False	0
1302_Z2_Moderate	0.0	1	0.25	2 False	0
1302_Z3_Low	0.0	0.3	0.25	2 False	0
1569_Z5_Derived	0.0	0.25	0.25	2 False	0
1569_Z6_Derived	3.0	0.2	0.25	2 False	0
Subtotal					0
<i>Pteropus poliocephalus / Grey-headed Flying-fox (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 N/A	0

BAM Credit Summary Report

1302_Z2_Moderate	0.0	1	0.25	2 N/A	0
1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
1569_Z5_Derived	0.0	0.5	0.25	2 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	2 N/A	0
Subtotal					0
<i>Thersites mitchellae / Mitchell's Rainforest Snail (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	3 True	0
1302_Z2_Moderate	0.0	1	0.25	3 True	0
1302_Z3_Low	0.0	0.3	0.25	3 True	0
Subtotal					0
<i>Tyto novaehollandiae / Masked Owl (Fauna)</i>					
1064_Z1_Moderate	0.1	3.8	0.25	2 N/A	0
1302_Z2_Moderate	0.0	1	0.25	2 N/A	0
1302_Z3_Low	0.0	0.3	0.25	2 N/A	0
1569_Z5_Derived	0.0	0.25	0.25	2 N/A	0
1569_Z6_Derived	3.0	0.2	0.25	2 N/A	0
Subtotal					0

Biodiversity Development Assessment Report

Tweed Valley Hospital

APPENDIX L. BIODIVERSITY CREDIT REPORT



BAM Biodiversity Credit Report (Like for like)

Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00011608/BAAS18006/18/00011611	Tweed Valley Hospital	24/02/2018
Assessor Name	Assessor Number	BAM Data version *
Damian Licari	BAAS18006	3
Proponent Names	Report Created	* 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.
	12/09/2018	

Candidate Serious and Irreversible Impacts

Nil

Nil

Additional Information for Approval

PCTs With Customized Benchmarks

No Changes

Predicted Threatened Species Not On Site

BAM Biodiversity Credit Report (Like for like)

Name
Thylogale stigmatica / Red-legged Pademelon
Tyto novaehollandiae / Masked Owl
Rostratula australis / Australian Painted Snipe

Ecosystem Credit Summary

PCT	TEC	Area	Credits
1064-Paperbark swamp forest of the coastal lowlands of the NSW North Coast Bioregion and Sydney Basin Bioregion	Swamp Sclerophyll Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions	3.8	1.00
1302-White Booyong - Fig subtropical rainforest of the NSW North Coast Bioregion	Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion	2.6	5.00
1569-Flooded Gum - Brush Box - Tallowwood mesic tall open forest on ranges of the lower North Coast	Not a TEC	0.7	2.00
1235-Swamp Oak swamp forest of the coastal lowlands of the NSW North Coast Bioregion	Not a TEC	0.1	1.00

Credit classes for	Like-for-like options		
1064	Any PCT with the below TEC	Containing HBT	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

	Swamp Sclerophyll Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions (including PCT's 837, 839, 971, 1064, 1092, 1227, 1230, 1231, 1232, 1235, 1649, 1715, 1716, 1717, 1718, 1719, 1721, 1722, 1723, 1724, 1725, 1730, 1795, 1798)	Yes	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
Credit classes for 1235	Like-for-like options			
	Any PCT in the below Class	And in any of below trading groups	Containing HBT	In the below IBRA subregions
	Coastal Floodplain Wetlands (including PCT's 780, 828, 835, 1234, 1235, 1386, 1651, 1720, 1728)	Coastal Floodplain Wetlands - ≥ 70% - <90% cleared group (including Tier 4 or higher).	No	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Credit classes for 1302	Like-for-like options			
	Any PCT with the below TEC	Containing HBT	In the below IBRA subregions	

BAM Biodiversity Credit Report (Like for like)

	Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion (including PCT's 669, 670, 1068, 1106, 1142, 1275, 1302, 1525, 1530, 1534, 1541)	Yes	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
Credit classes for 1569	Like-for-like options			
	Any PCT in the below Class	And in any of below trading groups	Containing HBT	In the below IBRA subregions
	North Coast Wet Sclerophyll Forests (including PCT's 487, 613, 661, 684, 686, 692, 693, 694, 695, 699, 747, 748, 752, 812, 1073, 1208, 1217, 1222, 1237, 1244, 1245, 1257, 1259, 1260, 1261, 1265, 1266, 1282, 1284, 1285, 1504, 1561, 1562, 1563, 1566, 1567, 1568, 1569, 1572, 1573, 1575, 1579, 1841, 1843, 1915)	North Coast Wet Sclerophyll Forests - < 50% cleared group (including Tier 7 or higher).	Yes	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. 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
Anthochaera phrygia / Regent Honeyeater	5.6	0.00
Argynnis hyperbius / Laced Fritillary	5.6	0.00
Arthraxon hispidus / Hairy Jointgrass	5.1	0.00
Cacophis harriettae / White-crowned Snake	5.6	0.00
Calyptorhynchus lathami / Glossy Black-Cockatoo	5.1	0.00
Centranthera cochinchinensis / Swamp Foxglove	5.1	0.00
Cercartetus nanus / Eastern Pygmy-possum	5.6	0.00
Chalinolobus dwyeri / Large-eared Pied Bat	5.6	0.00
Coeranoscincus reticulatus / Three-toed Snake-tooth Skink	5.6	0.00
Crinia tinnula / Wallum Froglet	3.8	0.00
Cryptocarya foetida / Stinking Cryptocarya	1.0	2.00
Cyclopsitta diophthalma coxeni / Coxen's Fig-Parrot	5.6	0.00
Cyperus aquatilis / Water Nutgrass	5.1	0.00
Dendrobium melaleucaphilum / Spider orchid	5.1	0.00
Geodorum densiflorum / Pink Nodding Orchid	5.1	0.00
Haliaeetus leucogaster / White-bellied Sea-Eagle	5.6	0.00
Hieraaetus morphnoides / Little Eagle	5.6	0.00
Hoplocephalus bitorquatus / Pale-headed Snake	5.6	0.00

BAM Biodiversity Credit Report (Like for like)

Isoglossa eranthemoides / Isoglossa	5.1	0.00
Lathamus discolor / Swift Parrot	5.6	0.00
Litoria brevipalmata / Green-thighed Frog	5.1	0.00
Litoria olongburensis / Olongburra Frog	5.1	0.00
Lophoictinia isura / Square-tailed Kite	5.6	0.00
Marsdenia longiloba / Slender Marsdenia	5.1	0.00
Miniopterus australis / Little Bentwing-bat	5.6	0.00
Miniopterus schreibersii oceanensis / Eastern Bentwing-bat	5.6	0.00
Mixophyes iteratus / Giant Barred Frog	5.1	0.00
Myotis macropus / Southern Myotis	5.1	0.00
Ninox connivens / Barking Owl	5.6	0.00
Ninox strenua / Powerful Owl	5.6	0.00
Pandion cristatus / Eastern Osprey	5.6	0.00
Petalura litorea / Coastal Petaltail	5.6	0.00
Petaurus norfolcensis / Squirrel Glider	5.6	0.00
Phascogale tapoatafa / Brush-tailed Phascogale	5.6	0.00
Phascolarctos cinereus / Koala	5.1	0.00
Phyllodes imperialis southern subspecies / Southern Pink Underwing Moth	5.6	0.00
Planigale maculata / Common Planigale	5.6	0.00
Pteropus poliocephalus / Grey-headed Flying-fox	5.8	0.00

BAM Biodiversity Credit Report (Like for like)

Thersites mitchellae / Mitchell's Rainforest Snail	5.1	0.00
Tyto novaehollandiae / Masked Owl	5.6	0.00

Anthochaera phrygia / Regent Honeyeater	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Argynnis hyperbius/ Laced Fritillary	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Argynnis hyperbius/Laced Fritillary	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Argynnis hyperbius/Laced Fritillary	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Argynnis hyperbius/Laced Fritillary	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Argynnis hyperbius/Laced Fritillary	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Argynnis hyperbius/Laced Fritillary	Any in NSW
Arthraxon hispidus/ Hairy Jointgrass	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Arthraxon hispidus/Hairy Jointgrass	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Arthraxon hispidus/Hairy Jointgrass	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Arthraxon hispidus/ Hairy Jointgrass	1302_Z2_Moderate		
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Arthraxon hispidus/ Hairy Jointgrass	Any in NSW
Cacophis harriettae/ White-crowned Snake	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cacophis harriettae/ White-crowned Snake	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cacophis harriettae/ White-crowned Snake	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Cacophis harriettae/ White-crowned Snake	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cacophis harriettae/ White-crowned Snake	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cacophis harriettae/ White-crowned Snake	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cacophis harriettae/ White-crowned Snake	Any in NSW
Calyptrorhynchus lathami/ Glossy Black-Cockatoo	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Calyptrorhynchus lathami /Glossy Black-Cockatoo	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Calyptrorhynchus lathami /Glossy Black-Cockatoo	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Calyptrorhynchus lathami /Glossy Black-Cockatoo	Any in NSW
Centranthera cochinchinensis / Swamp Foxglove	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Centranthera cochinchinensis /Swamp Foxglove	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Centranthera cochinchinensis/ Swamp Foxglove	1064_Z1_Moderate		
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Centranthera cochinchinensis/ Swamp Foxglove	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Centranthera cochinchinensis/ Swamp Foxglove	Any in NSW
Cercartetus nanus/ Eastern Pygmy-possum	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cercartetus nanus/ Eastern Pygmy-possum	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Cercartetus nanus/ Eastern Pygmy-possum	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cercartetus nanus /Eastern Pygmy-possum	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cercartetus nanus /Eastern Pygmy-possum	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cercartetus nanus /Eastern Pygmy-possum	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

Chalinolobus dwyeri/ Large-eared Pied Bat		Cercartetus nanus/Eastern Pygmy-possum	Any in NSW
	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Chalinolobus dwyeri/Large-eared Pied Bat	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Chalinolobus dwyeri/Large-eared Pied Bat	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Chalinolobus dwyeri/Large-eared Pied Bat	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Chalinolobus dwyeri/ Large-eared Pied Bat	1302_Z3_Low		
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Chalinolobus dwyeri/ Large-eared Pied Bat	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Chalinolobus dwyeri/ Large-eared Pied Bat	Any in NSW
Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	Any in NSW
	1569_Z6_Derived	Like-for-like options	

BAM Biodiversity Credit Report (Like for like)

		Only the below Spp	In the below IBRA subregions
		Coeranoscincus reticulatus /Three-toed Snake-tooth Skink	Any in NSW
Crinia tinnula / Wallum Froglet	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Crinia tinnula /Wallum Froglet	Any in NSW
Cryptocarya foetida / Stinking Cryptocarya	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cryptocarya foetida /Stinking Cryptocarya	Any in NSW
Cyclopsitta diophthalma coxeni / Coxen's Fig-Parrot	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

	1302_Z2_Moderate	Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
		Like-for-like options	
		Only the below Spp	In the below IBRA subregions
	1302_Z3_Low	Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
		Like-for-like options	
		Only the below Spp	In the below IBRA subregions
	1569_Z5_Derived	Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
		Like-for-like options	
		Only the below Spp	In the below IBRA subregions
	1569_Z6_Derived	Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
		Like-for-like options	
		Only the below Spp	In the below IBRA subregions
Cyperus aquatilis / Water Nutgrass	1064_Z1_Moderate	Cyperus aquatilis /Water Nutgrass	Any in NSW
		Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

Cyperus aquatilis/ Water Nutgrass	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyperus aquatilis /Water Nutgrass	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyperus aquatilis /Water Nutgrass	Any in NSW
Dendrobium melaleucaphilum/ Spider orchid	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Dendrobium melaleucaphilum /Spider orchid	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Dendrobium melaleucaphilum /Spider orchid	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Dendrobium melaleucaphilum /Spider orchid	Any in NSW
Geodorum densiflorum / Pink Nodding Orchid	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Geodorum densiflorum /Pink Nodding Orchid	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Geodorum densiflorum /Pink Nodding Orchid	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Geodorum densiflorum/ Pink Nodding Orchid	1302_Z2_Moderate		
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Geodorum densiflorum/ Pink Nodding Orchid	Any in NSW
Haliaeetus leucogaster/ White-bellied Sea-Eagle	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Haliaeetus leucogaster/ White-bellied Sea-Eagle	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Haliaeetus leucogaster/ White-bellied Sea-Eagle	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Haliaeetus leucogaster/ White-bellied Sea-Eagle	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Haliaeetus leucogaster/ White-bellied Sea-Eagle	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Haliaeetus leucogaster/ White-bellied Sea-Eagle	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Haliaeetus leucogaster/ White-bellied Sea-Eagle	Any in NSW
Hieraaetus morphnoides/ Little Eagle	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Hieraaetus morphnoides /Little Eagle	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hieraaetus morphnoides /Little Eagle	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hieraaetus morphnoides /Little Eagle	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hieraaetus morphnoides /Little Eagle	Any in NSW

BAM Biodiversity Credit Report (Like for like)

	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hieraaetus morphnoides /Little Eagle	Any in NSW
Hoplocephalus bitorquatus / Pale-headed Snake	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hoplocephalus bitorquatus /Pale-headed Snake	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hoplocephalus bitorquatus /Pale-headed Snake	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Hoplocephalus bitorquatus/ Pale-headed Snake	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hoplocephalus bitorquatus/ Pale-headed Snake	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hoplocephalus bitorquatus/ Pale-headed Snake	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Hoplocephalus bitorquatus/ Pale-headed Snake	Any in NSW
Isoglossa eranthemoides/ Isoglossa	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Isoglossa eranthemoides /Isoglossa	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Isoglossa eranthemoides /Isoglossa	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Isoglossa eranthemoides /Isoglossa	Any in NSW
Lathamus discolor / Swift Parrot	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lathamus discolor /Swift Parrot	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Lathamus discolor/ Swift Parrot	1064_Z1_Moderate		
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lathamus discolor/Swift Parrot	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lathamus discolor/Swift Parrot	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lathamus discolor/Swift Parrot	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Lathamus discolor/ Swift Parrot	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lathamus discolor/ Swift Parrot	Any in NSW
Litoria brevipalmata/ Green-thighed Frog	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Litoria brevipalmata/ Green-thighed Frog	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Litoria brevipalmata/ Green-thighed Frog	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

Litoria longburensis/ Olongburra Frog		Litoria brevipalmata /Green-thighed Frog	Any in NSW
	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Litoria longburensis /Olongburra Frog	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Litoria longburensis /Olongburra Frog	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Litoria longburensis /Olongburra Frog	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Litoria olongburensis/ Olongburra Frog	1302_Z3_Low	
Lophoictinia isura/ Square-tailed Kite	1064_Z1_Moderate	Like-for-like options
		Only the below Spp
		In the below IBRA subregions
		Lophoictinia isura /Square-tailed Kite
		Any in NSW
	1302_Z2_Moderate	Like-for-like options
		Only the below Spp
		In the below IBRA subregions
		Lophoictinia isura /Square-tailed Kite
		Any in NSW
	1302_Z3_Low	Like-for-like options
		Only the below Spp
		In the below IBRA subregions
		Lophoictinia isura /Square-tailed Kite
		Any in NSW

BAM Biodiversity Credit Report (Like for like)

Lophoictinia isura/ Square-tailed Kite	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lophoictinia isura /Square-tailed Kite	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Lophoictinia isura /Square-tailed Kite	Any in NSW
Marsdenia longiloba/ Slender Marsdenia	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Marsdenia longiloba /Slender Marsdenia	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Marsdenia longiloba /Slender Marsdenia	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Marsdenia longiloba /Slender Marsdenia	Any in NSW
Miniopterus australis / Little Bentwing-bat	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus australis /Little Bentwing-bat	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus australis /Little Bentwing-bat	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Miniopterus australis/ Little Bentwing-bat	1302_Z2_Moderate		
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus australis/Little Bentwing-bat	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus australis/Little Bentwing-bat	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus australis/Little Bentwing-bat	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Miniopterus schreibersii oceanensis/ Eastern Bentwing-bat	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Miniopterus schreibersii oceanensis/ Eastern Bentwing-bat	1302_Z3_Low		
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus schreibersii oceanensis/ Eastern Bentwing-bat	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Miniopterus schreibersii oceanensis/ Eastern Bentwing-bat	Any in NSW
Mixophyes iteratus/ Giant Barred Frog	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Mixophyes iteratus/ Giant Barred Frog	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Mixophyes iteratus/ Giant Barred Frog	1064_Z1_Moderate		
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Mixophyes iteratus/ Giant Barred Frog	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Mixophyes iteratus/ Giant Barred Frog	Any in NSW
Myotis macropus/ Southern Myotis	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Myotis macropus/ Southern Myotis	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Myotis macropus/ Southern Myotis	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Myotis macropus/Southern Myotis	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Myotis macropus/Southern Myotis	Any in NSW
Ninox connivens/ Barking Owl	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox connivens/Barking Owl	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Ninox connivens /Barking Owl	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox connivens /Barking Owl	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox connivens /Barking Owl	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox connivens /Barking Owl	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Ninox strenua/ Powerful Owl	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox strenua/Powerful Owl	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox strenua/Powerful Owl	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox strenua/Powerful Owl	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Ninox strenua/ Powerful Owl	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox strenua/Powerful Owl	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Ninox strenua/Powerful Owl	Any in NSW
Pandion cristatus/ Eastern Osprey	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pandion cristatus/Eastern Osprey	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Pandion cristatus /Eastern Osprey	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pandion cristatus /Eastern Osprey	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pandion cristatus /Eastern Osprey	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pandion cristatus /Eastern Osprey	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Petalura litorea/ Coastal Petaltail	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petalura litorea/ Coastal Petaltail	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petalura litorea/ Coastal Petaltail	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petalura litorea/ Coastal Petaltail	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Petalura litorea/ Coastal Petaltail	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petalura litorea/Coastal Petaltail	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petalura litorea/Coastal Petaltail	Any in NSW
Petaurus norfolcensis/ Squirrel Glider	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petaurus norfolcensis/Squirrel Glider	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Petaurus norfolcensis /Squirrel Glider	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petaurus norfolcensis /Squirrel Glider	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petaurus norfolcensis /Squirrel Glider	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Petaurus norfolcensis /Squirrel Glider	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Phascogale tapoatafa/ Brush-tailed Phascogale	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascogale tapoatafa/Brush-tailed Phascogale	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascogale tapoatafa/Brush-tailed Phascogale	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascogale tapoatafa/Brush-tailed Phascogale	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Phascogale tapoatafa/ Brush-tailed Phascogale	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascogale tapoatafa/Brush-tailed Phascogale	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascogale tapoatafa/Brush-tailed Phascogale	Any in NSW
Phascolarctos cinereus/ Koala	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascolarctos cinereus/Koala	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

		Phascolarctos cinereus /Koala	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phascolarctos cinereus /Koala	Any in NSW
Phyllodes imperialis southern subspecies / Southern Pink Underwing Moth	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phyllodes imperialis southern subspecies /Southern Pink Underwing Moth	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phyllodes imperialis southern subspecies /Southern Pink Underwing Moth	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Phyllodes imperialis southern subspecies/ Southern Pink Underwing Moth	1302_Z2_Moderate		
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phyllodes imperialis southern subspecies/Southern Pink Underwing Moth	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phyllodes imperialis southern subspecies/Southern Pink Underwing Moth	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Phyllodes imperialis southern subspecies/Southern Pink Underwing Moth	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Phyllodes imperialis southern subspecies/ Southern Pink Underwing Moth	1569_Z6_Derived		
Planigale maculata/ Common Planigale	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Planigale maculata/ Common Planigale	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Planigale maculata/ Common Planigale	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Planigale maculata/ Common Planigale	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Planigale maculata/ Common Planigale	1302_Z3_Low		
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Planigale maculata/ Common Planigale	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Planigale maculata/ Common Planigale	Any in NSW
Pteropus poliocephalus/ Grey-headed Flying-fox	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pteropus poliocephalus/ Grey-headed Flying-fox	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Pteropus poliocephalus/ Grey-headed Flying-fox	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pteropus poliocephalus/ Grey-headed Flying-fox	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pteropus poliocephalus/ Grey-headed Flying-fox	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Pteropus poliocephalus/ Grey-headed Flying-fox	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions

BAM Biodiversity Credit Report (Like for like)

Thersites mitchellae/ Mitchell's Rainforest Snail		Pteropus poliocephalus/Grey-headed Flying-fox	Any in NSW
	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Thersites mitchellae/Mitchell's Rainforest Snail	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Thersites mitchellae/Mitchell's Rainforest Snail	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Thersites mitchellae/Mitchell's Rainforest Snail	Any in NSW

BAM Biodiversity Credit Report (Like for like)

Thersites mitchellae/ Mitchell's Rainforest Snail	1302_Z3_Low	
Tyto novaehollandiae/ Masked Owl	1064_Z1_Moderate	Like-for-like options
		Only the below Spp
		In the below IBRA subregions
		Tyto novaehollandiae/ Masked Owl
		Any in NSW
	1302_Z2_Moderate	Like-for-like options
		Only the below Spp
		In the below IBRA subregions
		Tyto novaehollandiae/ Masked Owl
		Any in NSW
	1302_Z3_Low	Like-for-like options
		Only the below Spp
		In the below IBRA subregions
		Tyto novaehollandiae/ Masked Owl
		Any in NSW

BAM Biodiversity Credit Report (Like for like)

Tyto novaehollandiae/ Masked Owl	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Tyto novaehollandiae/Masked Owl	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Tyto novaehollandiae/Masked Owl	Any in NSW



BAM Biodiversity Credit Report (Variations)

Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00011608/BAAS18006/18/00011611	Tweed Valley Hospital	24/02/2018
Assessor Name	Assessor Number	BAM Data version *
Damian Licari	BAAS18006	3
Proponent Name(s)	Report Created	* 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.
	12/09/2018	

Candidate Serious and Irreversible Impacts

Nil

Nil

Additional Information for Approval

PCTs With Customized Benchmarks

No Changes

Predicted Threatened Species Not On Site

BAM Biodiversity Credit Report (Variations)

Name
Thylogale stigmatica / Red-legged Pademelon
Tyto novaehollandiae / Masked Owl
Rostratula australis / Australian Painted Snipe

Ecosystem Credit Summary

PCT	TEC	Area	Credits
1064-Paperbark swamp forest of the coastal lowlands of the NSW North Coast Bioregion and Sydney Basin Bioregion	Swamp Sclerophyll Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions	3.8	1.00
1235-Swamp Oak swamp forest of the coastal lowlands of the NSW North Coast Bioregion	Not a TEC	0.1	1.00
1302-White Booyong - Fig subtropical rainforest of the NSW North Coast Bioregion	Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion	2.6	5.00
1569-Flooded Gum - Brush Box - Tallowwood mesic tall open forest on ranges of the lower North Coast	Not a TEC	0.7	2.00

Credit classes for 1064	Like-for-like options		
	Any PCT with the below TEC	Containing HBT	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

	Swamp Sclerophyll Forest on Coastal Floodplains of the New South Wales North Coast, Sydney Basin and South East Corner Bioregions (including PCT's 837, 839, 971, 1064, 1092, 1227, 1230, 1231, 1232, 1235, 1649, 1715, 1716, 1717, 1718, 1719, 1721, 1722, 1723, 1724, 1725, 1730, 1795, 1798)	Yes	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
Variation options				
	Any PCT in the below Formation	And in any of below trading groups	Containing HBT	In the below IBRA regions/subregions
	Forested Wetlands	Tier 3 or higher	Yes (including artificial)	IBRA Region: South Eastern Queensland, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Credit classes for 1235	Like-for-like options			
	Any PCT in the below Class	And in any of below trading groups	Containing HBT	In the below IBRA subregions
	Coastal Floodplain Wetlands (including PCT's 780, 828, 835, 1234, 1235, 1386, 1651, 1720, 1728)	Coastal Floodplain Wetlands - ≥ 70% - <90% cleared group (including Tier 4 or higher).	No	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

BAM Biodiversity Credit Report (Variations)

Credit classes for 1235	Variation options			
	Any PCT in the below Formation	And in any of below trading groups	Containing HBT	In the below IBRA regions/subregions
	Forested Wetlands	Tier 4 or higher	No	IBRA Region: South Eastern Queensland, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Credit classes for 1302	Like-for-like options			
	Any PCT with the below TEC	Containing HBT	In the below IBRA subregions	
	Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion (including PCT's 669, 670, 1068, 1106, 1142, 1275, 1302, 1525, 1530, 1534, 1541)	Yes	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
	Variation options			
	Any PCT in the below Formation	And in any of below trading groups	Containing HBT	In the below IBRA regions/subregions
	Rainforests	Tier 3 or higher	Yes (including artificial)	IBRA Region: South Eastern Queensland, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

BAM Biodiversity Credit Report (Variations)

Credit classes for 1569	Like-for-like options			
	Any PCT in the below Class	And in any of below trading groups	Containing HBT	In the below IBRA subregions
	North Coast Wet Sclerophyll Forests (including PCT's 487, 613, 661, 684, 686, 692, 693, 694, 695, 699, 747, 748, 752, 812, 1073, 1208, 1217, 1222, 1237, 1244, 1245, 1257, 1259, 1260, 1261, 1265, 1266, 1282, 1284, 1285, 1504, 1561, 1562, 1563, 1566, 1567, 1568, 1569, 1572, 1573, 1575, 1579, 1841, 1843, 1915)	North Coast Wet Sclerophyll Forests - < 50% cleared group (including Tier 7 or higher).	Yes	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	Variation options			
	Any PCT in the below Formation	And in any of below trading groups	Containing HBT	In the below IBRA regions/subregions
	Wet Sclerophyll Forests (Shrubby sub-formation)	Tier 7 or higher	Yes (including artificial)	IBRA Region: South Eastern Queensland, or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

Species Credit Summary

Species	Area	Credits
Anthochaera phrygia / Regent Honeyeater	5.6	0.00

BAM Biodiversity Credit Report (Variations)

Argynnis hyperbius / Laced Fritillary	5.6	0.00
Arthraxon hispidus / Hairy Jointgrass	5.1	0.00
Cacophis harriettae / White-crowned Snake	5.6	0.00
Calyptorhynchus lathami / Glossy Black-Cockatoo	5.1	0.00
Centranthera cochinensis / Swamp Foxglove	5.1	0.00
Cercartetus nanus / Eastern Pygmy-possum	5.6	0.00
Chalinolobus dwyeri / Large-eared Pied Bat	5.6	0.00
Coeranoscincus reticulatus / Three-toed Snake-tooth Skink	5.6	0.00
Crinia tinnula / Wallum Froglet	3.8	0.00
Cryptocarya foetida / Stinking Cryptocarya	1.0	2.00
Cyclopsitta diophthalma coxeni / Coxen's Fig-Parrot	5.6	0.00
Cyperus aquatilis / Water Nutgrass	5.1	0.00
Dendrobium melaleucaphilum / Spider orchid	5.1	0.00
Geodorum densiflorum / Pink Nodding Orchid	5.1	0.00
Haliaeetus leucogaster / White-bellied Sea-Eagle	5.6	0.00
Hieraaetus morphnoides / Little Eagle	5.6	0.00
Hoplocephalus bitorquatus / Pale-headed Snake	5.6	0.00
Isoglossa eranthemoides / Isoglossa	5.1	0.00
Lathamus discolor / Swift Parrot	5.6	0.00
Litoria brevipalmata / Green-thighed Frog	5.1	0.00

BAM Biodiversity Credit Report (Variations)

Litoria longiburensis / Olongburra Frog	5.1	0.00
Lophoictinia isura / Square-tailed Kite	5.6	0.00
Marsdenia longiloba / Slender Marsdenia	5.1	0.00
Miniopterus australis / Little Bentwing-bat	5.6	0.00
Miniopterus schreibersii oceanensis / Eastern Bentwing-bat	5.6	0.00
Mixophyes iteratus / Giant Barred Frog	5.1	0.00
Myotis macropus / Southern Myotis	5.1	0.00
Ninox connivens / Barking Owl	5.6	0.00
Ninox strenua / Powerful Owl	5.6	0.00
Pandion cristatus / Eastern Osprey	5.6	0.00
Petalura litorea / Coastal Petaltail	5.6	0.00
Petaurus norfolcensis / Squirrel Glider	5.6	0.00
Phascogale tapoatafa / Brush-tailed Phascogale	5.6	0.00
Phascolarctos cinereus / Koala	5.1	0.00
Phyllodes imperialis southern subspecies / Southern Pink Underwing Moth	5.6	0.00
Planigale maculata / Common Planigale	5.6	0.00
Pteropus poliocephalus / Grey-headed Flying-fox	5.8	0.00
Thersites mitchellae / Mitchell's Rainforest Snail	5.1	0.00
Tyto novaehollandiae / Masked Owl	5.6	0.00

BAM Biodiversity Credit Report (Variations)

Anthochaera phrygia / Regent Honeyeater	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Anthochaera phrygia /Regent Honeyeater	Any in NSW
Argynnis hyperbius / Laced Fritillary	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Argynnis hyperbius /Laced Fritillary	Any in NSW

BAM Biodiversity Credit Report (Variations)

Argynnis hyperbius/ Laced Fritillary	1064_Z1_Moderate	Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
	1302_Z2_Moderate	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
		Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Argynnis hyperbius/Laced Fritillary		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Argynnis hyperbius/Laced Fritillary		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Argynnis hyperbius/Laced Fritillary		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Argynnis hyperbius/Laced Fritillary		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Arthraxon hispidus/ Hairy Jointgrass	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Arthraxon hispidus /Hairy Jointgrass		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	In the below IBRA subregions
		Flora	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Arthraxon hispidus /Hairy Jointgrass		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Arthraxon hispidus /Hairy Jointgrass		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Cacophis harriettae/ White-crowned Snake	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cacophis harriettae/ White-crowned Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Cacophis harriettae /White-crowned Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cacophis harriettae /White-crowned Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Cacophis harriettae/White-crowned Snake		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Cacophis harriettae /White-crowned Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Calyptrorhynchus lathami / Glossy Black-Cockatoo	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Calyptrorhynchus lathami /Glossy Black-Cockatoo		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Calyptrorhynchus lathamii/Glossy Black-Cockatoo		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Calyptrorhynchus lathami /Glossy Black-Cockatoo		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Centranthera cochinchinensis / Swamp Foxglove	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Centranthera cochinchinensis /Swamp Foxglove		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Centranthera cochinchinensis /Swamp Foxglove		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Centranthera cochinensis /Swamp Foxglove		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Cercartetus nanus / Eastern Pygmy-possum	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cercartetus nanus /Eastern Pygmy-possum		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Cercartetus nanus /Eastern Pygmy-possum		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Cercartetus nanus /Eastern Pygmy-possum		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z5_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cercartetus nanus /Eastern Pygmy-possum		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cercartetus nanus/Eastern Pygmy-possum		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Chalinolobus dwyeri/ Large-eared Pied Bat	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Chalinolobus dwyeri /Large-eared Pied Bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Chalinolobus dwyeri /Large-eared Pied Bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Chalinolobus dwyeri/Large-eared Pied Bat		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Chalinolobus dwyeri /Large-eared Pied Bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Chalinolobus dwyeri /Large-eared Pied Bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Coeranoscincus reticulatus/ Three-toed Snake-tooth Skink		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		

BAM Biodiversity Credit Report (Variations)

	Only the below Spp		In the below IBRA subregions
	Coeranoscincus reticulatus/Three-toed Snake-tooth Skink		Any in NSW
	Variation options		
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options		
	Only the below Spp		In the below IBRA subregions
	Coeranoscincus reticulatus/Three-toed Snake-tooth Skink		Any in NSW
	Variation options		
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Coeranoscincus reticulatus/Three-toed Snake-tooth Skink		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			

BAM Biodiversity Credit Report (Variations)

		Only the below Spp		In the below IBRA subregions
		Coeranoscincus reticulatus/Three-toed Snake-tooth Skink		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Crinia tinnula/ Wallum Froglet	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Crinia tinnula/Wallum Froglet		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Cryptocarya foetida/ Stinking Cryptocarya	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cryptocarya foetida/ Stinking Cryptocarya		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Flora	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.

BAM Biodiversity Credit Report (Variations)

Cyclopsitta diophthalma coxeni / Coxen's Fig-Parrot	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
	1302_Z2_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
	1302_Z3_Low	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
	1569_Z5_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
	1569_Z6_Derived	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyclopsitta diophthalma coxeni /Coxen's Fig-Parrot	Any in NSW
Cyperus aquatilis / Water Nutgrass	1064_Z1_Moderate	Like-for-like options	
		Only the below Spp	In the below IBRA subregions
		Cyperus aquatilis /Water Nutgrass	Any in NSW

BAM Biodiversity Credit Report (Variations)

Cyperus aquatilis/ Water Nutgrass	1064_Z1_Moderate	Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Cyperus aquatilis/Water Nutgrass		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Cyperus aquatilis /Water Nutgrass		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

BAM Biodiversity Credit Report (Variations)

Dendrobium melaleucaphilum/ Spider orchid	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Dendrobium melaleucaphilum/ Spider orchid		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Dendrobium melaleucaphilum/ Spider orchid		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Dendrobium melaleucaphilum/Spider orchid		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
	Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
Geodorum densiflorum/ Pink Nodding Orchid	1064_Z1_Moderate	Like-for-like options		

BAM Biodiversity Credit Report (Variations)

		Only the below Spp		In the below IBRA subregions
		Geodorum densiflorum /Pink Nodding Orchid		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Geodorum densiflorum /Pink Nodding Orchid		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Endangered	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Geodorum densiflorum /Pink Nodding Orchid		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Haliaeetus leucogaster / White-bellied Sea-Eagle	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Haliaeetus leucogaster /White-bellied Sea-Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Haliaeetus leucogaster /White-bellied Sea-Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Haliaeetus leucogaster /White-bellied Sea-Eagle		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Haliaeetus leucogaster /White-bellied Sea-Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Haliaeetus leucogaster /White-bellied Sea-Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Hieraaetus morphnoides/ Little Eagle	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Hieraaetus morphnoides /Little Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Hieraaetus morphnoides /Little Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Hieraaetus morphnoides /Little Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Hieraaetus morphnoides/Little Eagle		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Hieraaetus morphnoides /Little Eagle		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Hoplocephalus bitorquatus / Pale-headed Snake	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Hoplocephalus bitorquatus /Pale-headed Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Hoplocephalus bitorquatus /Pale-headed Snake		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Hoplocephalus bitorquatus /Pale-headed Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z5_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Hoplocephalus bitorquatus /Pale-headed Snake		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Hoplocephalus bitorquatus/Pale-headed Snake		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

BAM Biodiversity Credit Report (Variations)

Isoglossa eranthemoides/ Isoglossa	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Isoglossa eranthemoides/Isoglossa		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Isoglossa eranthemoides/Isoglossa		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Isoglossa eranthemoides/Isoglossa		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Lathamus discolor/ Swift Parrot	1064_Z1_Moderate	Like-for-like options		

BAM Biodiversity Credit Report (Variations)

		Only the below Spp		In the below IBRA subregions
		Lathamus discolor/Swift Parrot		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Lathamus discolor/Swift Parrot		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Lathamus discolor/Swift Parrot		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Lathamus discolor /Swift Parrot		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Lathamus discolor /Swift Parrot		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Litoria brevipalmata/ Green-thighed Frog	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Litoria brevipalmata/ Green-thighed Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Litoria brevipalmata /Green-thighed Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Litoria brevipalmata /Green-thighed Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Litoria olongburensis/ Olongburra Frog	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Litoria olongburensis /Olongburra Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Litoria olongburensis /Olongburra Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Litoria olongburensis /Olongburra Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Lophoictinia isura/ Square-tailed Kite	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Lophoictinia isura/Square-tailed Kite		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Lophoictinia isura /Square-tailed Kite		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Lophoictinia isura /Square-tailed Kite		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Lophoictinia isura/Square-tailed Kite		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Lophoictinia isura /Square-tailed Kite		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Marsdenia longiloba / Slender Marsdenia	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Marsdenia longiloba /Slender Marsdenia		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Marsdenia longiloba/Slender Marsdenia		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Marsdenia longiloba /Slender Marsdenia		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Flora	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Miniopterus australis / Little Bentwing-bat	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Miniopterus australis /Little Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Miniopterus australis/Little Bentwing-bat		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Miniopterus australis /Little Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z5_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Miniopterus australis /Little Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Miniopterus australis /Little Bentwing-bat		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

BAM Biodiversity Credit Report (Variations)

Miniopterus schreibersii oceanensis/ Eastern Bentwing-bat	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	In the below IBRA subregions
	1302_Z2_Moderate	Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
		Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

			under Part 4 of teh BC Act showb below	
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Miniopterus schreibersii oceanensis /Eastern Bentwing-bat		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			

BAM Biodiversity Credit Report (Variations)

		Only the below Spp		In the below IBRA subregions
		Miniopterus schreibersii oceanensis /Eastern Bentwing-bat		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Mixophyes iteratus / Giant Barred Frog	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Mixophyes iteratus /Giant Barred Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Mixophyes iteratus /Giant Barred Frog		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Mixophyes iteratus /Giant Barred Frog		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Myotis macropus /Southern Myotis	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Myotis macropus /Southern Myotis		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Myotis macropus/Southern Myotis		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Myotis macropus /Southern Myotis		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Ninox connivens / Barking Owl	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Ninox connivens /Barking Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Ninox connivens/Barking Owl		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Ninox connivens /Barking Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z5_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Ninox connivens /Barking Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Ninox connivens/Barking Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Ninox strenua/ Powerful Owl	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Ninox strenua /Powerful Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Ninox strenua /Powerful Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Ninox strenua/Powerful Owl		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Ninox strenua /Powerful Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Ninox strenua /Powerful Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Pandion cristatus/ Eastern Osprey	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Pandion cristatus /Eastern Osprey		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Pandion cristatus /Eastern Osprey		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Pandion cristatus /Eastern Osprey		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Pandion cristatus /Eastern Osprey		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Pandion cristatus /Eastern Osprey		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Petalura litorea / Coastal Petaltail	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Petalura litorea /Coastal Petaltail		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Petalura litorea /Coastal Petaltail		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Petalura litorea /Coastal Petaltail		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z5_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Petalura litorea /Coastal Petaltail		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Petalura litorea/Coastal Petaltail		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Petaurus norfolcensis/ Squirrel Glider	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Petaurus norfolcensis /Squirrel Glider		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Petaurus norfolcensis /Squirrel Glider		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Petaurus norfolcensis/Squirrel Glider		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Petaurus norfolcensis /Squirrel Glider		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Petaurus norfolcensis /Squirrel Glider		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Phascogale tapoatafa/ Brush-tailed Phascogale	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Phascogale tapoatafa/Brush-tailed Phascogale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act show below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Phascogale tapoatafa /Brush-tailed Phascogale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Phascogale tapoatafa /Brush-tailed Phascogale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Phascogale tapoatafa/Brush-tailed Phascogale		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Phascogale tapoatafa /Brush-tailed Phascogale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Phascolarctos cinereus / Koala	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Phascolarctos cinereus /Koala		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Phascolarctos cinereus/Koala		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Phascolarctos cinereus /Koala		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Phyllodes imperialis southern subspecies / Southern Pink Underwing Moth	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp	In the below IBRA subregions	
		Phyllodes imperialis southern subspecies /Southern Pink Underwing Moth		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Phyllodes imperialis southern subspecies/Southern Pink Underwing Moth		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			

BAM Biodiversity Credit Report (Variations)

		Only the below Spp		In the below IBRA subregions
		Phyllodes imperialis southern subspecies/Southern Pink Underwing Moth		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived		Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Phyllodes imperialis southern subspecies/Southern Pink Underwing Moth		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Phyllodes imperialis southern subspecies /Southern Pink Underwing Moth		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom		Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	

BAM Biodiversity Credit Report (Variations)

Planigale maculata/ Common Planigale	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Planigale maculata/Common Planigale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Planigale maculata/Common Planigale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Planigale maculata/Common Planigale		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z5_Derived	Like-for-like options			

BAM Biodiversity Credit Report (Variations)

		Only the below Spp		In the below IBRA subregions
		Planigale maculata /Common Planigale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z6_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Planigale maculata /Common Planigale		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Pteropus poliocephalus/ Grey-headed Flying-fox	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Pteropus poliocephalus/ Grey-headed Flying-fox		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of the BC Act shown below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges, Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z2_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Pteropus poliocephalus /Grey-headed Flying-fox		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1302_Z3_Low	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Pteropus poliocephalus /Grey-headed Flying-fox		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z5_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Pteropus poliocephalus /Grey-headed Flying-fox		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Pteropus poliocephalus /Grey-headed Flying-fox		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Thersites mitchellae / Mitchell's Rainforest Snail	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Thersites mitchellae /Mitchell's Rainforest Snail		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Thersites mitchellae/Mitchell's Rainforest Snail		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Thersites mitchellae /Mitchell's Rainforest Snail		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Endangered	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
Tyto novaehollandiae /Masked Owl	1064_Z1_Moderate	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Tyto novaehollandiae /Masked Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1302_Z2_Moderate	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Tyto novaehollandiae/Masked Owl		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	
1302_Z3_Low	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	

BAM Biodiversity Credit Report (Variations)

		Tyto novaehollandiae /Masked Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions
		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
	1569_Z5_Derived	Like-for-like options		
		Only the below Spp		In the below IBRA subregions
		Tyto novaehollandiae /Masked Owl		Any in NSW
		Variation options		
		Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions

BAM Biodiversity Credit Report (Variations)

		Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.
1569_Z6_Derived	Like-for-like options			
	Only the below Spp		In the below IBRA subregions	
	Tyto novaehollandiae/Masked Owl		Any in NSW	
	Variation options			
	Any Spp in the below Kingdom	Any species with same or higher category of listing under Part 4 of teh BC Act showb below	In the below IBRA subregions	
	Fauna	Vulnerable	Burringbar-Conondale Ranges,Scenic Rim and Sunshine Coast-Gold Coast Lowlands. or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.	