

APPENDIX 14: OFFSET ASSESSMENT RESULTS

Appendix 14.1: Modified Habitat Quality Assessment Tool (MHQAT)

Appendix 14.2: Offsets Assessment Guide (OAG)

Appendix 14.3: BioCondition Transect Data – Impact Site

Appendix 14.4: BioCondition Transect Data – Offset Site

14.1 MODIFIED HABITAT QUALITY ASSESSMENT TOOL (MHQAT)

Assessment Unit - Regional Ecosystem	RE 12.3.3									
Trasect No.	Benchmark	Transect 1			Transect 2			Transect 3		
Site condition		Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition										
Recruitment of woody perennial species in EDL	100	100	100	5	0	0	0	0	0	0
Native plant species richness - trees	5	8	160	5	9	180	5	9	180	5
Native plant species richness - shrubs	5	2	40	2.5	2	40	2.5	1	20	0
Native plant species richness - grasses	9	0	0	0	2	22	0	2	22	0
Native plant species richness - forbes	25	7	28	2.5	3	12	0	5	20	0
Tree canopy height (average of emergent, canopy, sub-canopy)	16	16	100	5	15	94	5	14	88	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	24	22	92	5	29.5	123	5	31.5	131	5
Shrub canopy cover	4	4	100	5	0	0	0	0	0	0
Native grass cover	52	0	0	0	0	0	0	32	62	3
Organic litter	20	27	135	5	26	130	5	9	45	3
Coarse woody debris	588	118	20	2	159	27	2	0	0	0
Large trees (euc plus non-euc)	14	4	29	5	5	36	5	2	14	5
Non-native plant cover	0	90	N/A	0	90	N/A	0	70	N/A	0
Total (out of 10)				5.25			3.6875			3.25
Blossom species				1.9			1.2			3.5
Fruiting species				5.6			0			9.9
Seasonal continuity				23			14.4			24.5
Site Condition Score				35.75			19.2875			41.15
MAX Site Condition Score				100			100			100
Site Condition Score - out of 4			1.43			0.77			1.65	

Assessment Unit - Regional Ecosystem	RE 12.9-10.2						
Trasect No.	Benchmark	Transect 4			Transect 5		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
Recruitment of woody perennial species in EDL	100	75	75	5	33	33	3
Native plant species richness - trees	6	7	117	5	8	133	5
Native plant species richness - shrubs	7	0	0	0	1	14	0
Native plant species richness - grasses	7	0	0	0	1	14	0
Native plant species richness - forbes	13	0	0	0	5	38	2.5
Tree canopy height (average of emergent, canopy, sub-canopy)	16.5	16.5	100	5	15.5	94	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	42	35.5	85	5	36	86	5
Shrub canopy cover	6	0	0	0	1.5	25	3
Native grass cover	21	0	0	0	15	71	3
Organic litter	48	9	19	3	11	23	3
Coarse woody debris	506	337	67	5	181	36	2
Large trees (euc plus non-euc)	19	24	126	15	14	74	10
Non-native plant cover	0	100	N/A	0	40	N/A	3
Total (out of 10)				5.375			5.5625
Blossom species	40			4			12.7
Fruiting species	20			0			5.9
Seasonal continuity	30			13			16.7
Site Condition Score				22.375			40.8625
MAX Site Condition Score				100			100
Site Condition Score - out of 4				0.90			1.63

Assessment Unit - Regional Ecosystem	RE 12.3.7						
Trasect No.	Benchmark	Transect 6			Transect 7		
Site condition	12.3.7	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
Recruitment of woody perennial species in EDL	100	20	20	3	14	14	0
Native plant species richness - trees	6	9	150	5	7	117	5
Native plant species richness - shrubs	8	2	25	2.5	2	25	2.5
Native plant species richness - grasses	6	1	17	0	0	0	0
Native plant species richness - forbes	17	6	35	2.5	2	12	2.5
Tree canopy height (average of emergent, canopy, sub-canopy)	17	15	88	5	14	82	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	27	45.5	169	5	41	152	5
Shrub canopy cover	22	0	0	0	0	0	0
Native grass cover	8	0	0	0	0	0	0
Organic litter	27	15	56	5	15	56	5
Coarse woody debris	667	421	63	5	204	31	2
Large trees (euc plus non-euc)	60	10	17	5	12	20	5
Non-native plant cover	0	50	N/A	0	80	N/A	0
Total (out of 10)				4.75			4
Blossom species				2.2			8.5
Fruiting species				1.7			0
Seasonal continuity				5.8			7.4
Site Condition Score				14.45			19.9
MAX Site Condition Score				100			100
Site Condition Score - out of 4			0.58				0.80

Site Context		
	Benchmark	Score
Size of patch	30	5
Context	10	10
Ecological Corridors	10	20
Power line density	30	0
Number of roosts	20	20
Site Context Score	100	55
MAX Site Context Score		
Site Context Score - out of 3 (all assessment units)	1.65	

Species Stocking Rate (SSR)						12.9-10.2	12.3.3	12.3.7
Species usage of the site (habitat type & evidenced usage)	Score	0	20	35		35	35	35
		Not habitat	Summer	Winter				
Maxent modelling	Score	0	10	25		10	10	10
		Not habitat	Regrowth	Remnant				
Range limit	Score	0		10		0	0	0
		No		Yes				
NSR proximity	Score	0	10	18	25	25	25	25
		Outside 40km	Within 21-40km	Within 11-20km	Within 10km			
Total SRR score (out of 100)						TOTAL	TOTAL	TOTAL
						70	70	70
					SRR Score (out of 3)	2.1	2.1	2.1

Final habitat quality score (weighted)	12.9-10.2	12.3.3	12.3.7	Average
Site Condition score (out of 4)	1.26	1.28	0.69	0.81
Site Context Score (out of 3)	1.65	1.65	1.65	1.24
Species Stocking Rate Score (out of 3)	2.10	2.10	2.10	1.58
Habitat Quality score (out of 10)	5.01	5.03	4.44	3.62
Total impact area (ha) for this VSU	12.69	2.17	2.54	4.35
Total area	17.39	17.39	17.39	13.04
% weighting	0.73	0.12	0.15	0.25
Size Weighting	3.66	0.63	0.65	1.23
TOTAL SCORE (10)	5			

Assessment Unit - Regional Ecosystem		Remnant			Remnant		
Trasect No.	Benchmark	Transect 1			Transect 8		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
<i>Recruitment of woody perennial species in EDL</i>	100	100	100	5	100	100	5
<i>Native plant species richness - trees</i>	6	5	83	2.5	9	150	5
<i>Native plant species richness - shrubs</i>	7	2	29	2.5	4	57	2.5
<i>Native plant species richness - grasses</i>	7	4	57	2.5	4	57	2.5
<i>Native plant species richness - forbes</i>	13	4	31	2.5	6	46	2.5
<i>Tree canopy height (average of emergent, canopy, sub-canopy)</i>	16.5	16.5	100	5	17	103	5
<i>Tree canopy cover (average of emergent, canopy, sub-canopy)</i>	42	48.8	116	5	33.3	79	5
<i>Shrub canopy cover</i>	6	0	0	0	0	0	0
<i>Native grass cover</i>	21	12	57	3	19	90	5
<i>Organic litter</i>	48	48	100	5	19	40	3
<i>Coarse woody debris</i>	506	525	104	5	202	40	2
<i>Large trees (euc plus non-euc)</i>	19	7	37	5	9	47	5
<i>Non-native plant cover</i>	0	10	N/A	5	5	N/A	5
Total (out of 10)				6			5.9375
Blossom species	40			19.41			18.18
Fruiting species	20			1.4			0.3
Seasonal continuity	30			17.8			13.5
Site Condition Score				44.61			37.9175
<i>MAX Site Condition Score</i>				<i>100</i>			<i>100</i>
Site Condition Score - out of 4				1.78			1.52

Assessment Unit - Regional Ecosystem		Mesic					
Trasect No.	Benchmark	Transect 3			Transect 6		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
Recruitment of woody perennial species in EDL	100	100	100	3	100	100	5
Native plant species richness - trees	6	6	100	5	8	133	5
Native plant species richness - shrubs	7	0	0	0	1	14	0
Native plant species richness - grasses	7	6	86	2.5	4	57	2.5
Native plant species richness - forbes	13	8	62	2.5	4	31	2.5
Tree canopy height (average of emergent, canopy, sub-canopy)	16.5	23.5	142	5	12.5	76	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	42	18	43	2	28	67	5
Shrub canopy cover	6	1.5	25	3	0	0	0
Native grass cover	21	8	38	1	33	157	5
Organic litter	48	24	50	3	27	56	3
Coarse woody debris	506	40	8	0	326	64	5
Large trees (euc plus non-euc)	19	4	21	5	7	37	5
Non-native plant cover	0	15	N/A	5	15	N/A	5
Total (out of 10)				4.625			6
Blossom species	40			20.6			4.9
Fruiting species	20			1.1			0
Seasonal continuity	30			18.9			9.3
Site Condition Score				45.225			20.2
MAX Site Condition Score				100			100
Site Condition Score - out of 4				1.81			0.81

Assessment Unit - Regional Ecosystem		Regrowth					
Trasect No.	Benchmark	Transect 4			Transect 5		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
<i>Recruitment of woody perennial species in EDL</i>	100	75	75	5	67	67	3
<i>Native plant species richness - trees</i>	6	6	100	5	5	83	2.5
<i>Native plant species richness - shrubs</i>	7	4	57	2.5	5	71	2.5
<i>Native plant species richness - grasses</i>	7	5	71	2.5	5	71	2.5
<i>Native plant species richness - forbes</i>	13	5	38	2.5	5	38	2.5
<i>Tree canopy height (average of emergent, canopy, sub-canopy)</i>	16.5	10	61	3	12.25	74	5
<i>Tree canopy cover (average of emergent, canopy, sub-canopy)</i>	42	23.5	56	5	39	93	5
<i>Shrub canopy cover</i>	6	1.5	25	3	0	0	0
<i>Native grass cover</i>	21	17	81	3	7	33	1
<i>Organic litter</i>	48	20	42	3	39	81	3
<i>Coarse woody debris</i>	506	480	95	5	425	84	5
<i>Large trees (euc plus non-euc)</i>	19	6	32	5	4	21	5
<i>Non-native plant cover</i>	0	40	N/A	3	10	N/A	5
Total (out of 10)				5.9375			5.25
Blossom species	40			13.7			15.4
Fruiting species	20			2.3			2.9
Seasonal continuity	30			19.2			19.2
Site Condition Score				41.1375			42.75
<i>MAX Site Condition Score</i>				<i>100</i>			<i>100</i>
Site Condition Score - out of 4				1.65			1.71

Assessment Unit - Regional Ecosystem		Disturbed			Disturbed		
Trasect No.	Benchmark	Transect 2			Transect 7		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
Recruitment of woody perennial species in EDL	100	33	33	3	100	100	5
Native plant species richness - trees	6	6	100	5	3	50	2.5
Native plant species richness - shrubs	7	3	43	2.5	0	0	0
Native plant species richness - grasses	7	5	71	2.5	3	43	2.5
Native plant species richness - forbes	13	1	8	0	3	23	0
Tree canopy height (average of emergent, canopy, sub-canopy)	16.5	18	109	5	13	79	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	42	19.3	46	2	10	24	2
Shrub canopy cover	6	3.4	57	5	0.5	8	0
Native grass cover	21	5	24	1	41	195	5
Organic litter	48	17	35	3	21	44	3
Coarse woody debris	506	95	19	2	231	46	5
Large trees (euc plus non-euc)	19	3	16	5	3	16	5
Non-native plant cover	0	90	0	0	30	N/A	3
Total (out of 10)				4.5			4.75
Blossom species	40			2			0.32
Fruiting species	20			4.9			0
Seasonal continuity	30			13.3			3.7
Site Condition Score				24.7			8.77
MAX Site Condition Score				100			100
Site Condition Score - out of 4				0.99			0.35

Site Context		
	Benchmark	Score
Size of patch	30	30
Context	10	4
Ecological Corridors	10	10
Power line density	30	8
Number of roosts	20	20
Site Context Score	100	72
MAX Site Context Score		
Site Context Score - out of 3 (all assessment units)	2.16	

Species Stocking Rate (SSR)								Remnant	Disturbed	Mesic	Regrowth
Species usage of the site (habitat type & evidenced usage)	Score	0	20	35			35	0	35	35	
		Not habitat	Summer	Winter							
Maxent modelling	Score	0	10	25			25	0	10	10	
		Not habitat	Regrowth	Remnant							
Range limit	Score	0		10			0	0	0	0	
		No		Yes							
NSR proximity	Score	0	10	18	25		10	10	10	10	
		Outside 40km	Within 21-40km	Within 11-20km	Within 10km						
Total SRR score (out of 100)								TOTAL	TOTAL	TOTAL	TOTAL
								70	10	55	55
							SRR Score (out of 3)	2.1	0.3	1.65	1.65

Final habitat quality score (weighted)	Remnant	Disturbed	Mesic	Regrowth	Average
Site Condition score (out of 4)	1.65	0.67	1.31	1.68	1.33
Site Context Score (out of 3)	2.16	2.16	2.16	2.16	2.16
Species Stocking Rate Score (out of 3)	2.10	0.30	1.65	1.65	1.43
Habitat Quality score (out of 10)	5.91	3.13	5.12	5.49	4.91
Total impact area (ha) for this VSU	9.40	13.7	15.8	16.00	13.73
Total area	54.90	54.90	54.90	54.90	54.90
% weighting	0.17	0.25	0.29	0.29	0.25
Size Weighting	1.01	0.78	1.47	1.60	1.22
TOTAL SCORE (10)	5				

Note that the following tables are examples only based on completion criteria and the actual scoring upon end of offset is subject to change

Assessment Unit - Regional Ecosystem		Remnant			Remnant		
Trasect No.	Benchmark	Transect 1			Transect 8		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
Recruitment of woody perennial species in EDL	100	100	100	5	100	100	5
Native plant species richness - trees	6	5	83	2.5	9	150	5
Native plant species richness - shrubs	7	2	29	2.5	4	57	2.5
Native plant species richness - grasses	7	4	57	2.5	4	57	2.5
Native plant species richness - forbes	13	4	31	2.5	6	46	2.5
Tree canopy height (average of emergent, canopy, sub-canopy)	16.5	16.5	100	5	17	103	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	42	48.8	116	5	33.3	79	5
Shrub canopy cover	6	0	0	0	0	0	0
Native grass cover	21	12	57	3	19	90	5
Organic litter	48	48	100	5	19	40	3
Coarse woody debris	506	525	104	5	202	40	2
Large trees (euc plus non-euc)	19	7	37	5	9	47	5
Non-native plant cover	0	10	N/A	5	5	N/A	5
Total (out of 10)				6			5.9375
Blossom species	40			19.41			19.41
Fruiting species	20			10			10
Seasonal continuity	30			25.8			25.8
Site Condition Score				61.21			61.1475
MAX Site Condition Score				100			100
Site Condition Score - out of 4				2.45			2.45

Assessment Unit - Regional Ecosystem		Mesic					
Trasect No.	Benchmark	Transect 3			Transect 6		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
Recruitment of woody perennial species in EDL	100	100	100	3	100	100	5
Native plant species richness - trees	6	6	100	5	8	133	5
Native plant species richness - shrubs	7	0	0	0	1	14	0
Native plant species richness - grasses	7	6	86	2.5	4	57	2.5
Native plant species richness - forbes	13	8	62	2.5	4	31	2.5
Tree canopy height (average of emergent, canopy, sub-canopy)	16.5	23.5	142	5	12.5	76	5
Tree canopy cover (average of emergent, canopy, sub-canopy)	42	18	43	2	28	67	5
Shrub canopy cover	6	1.5	25	3	0	0	0
Native grass cover	21	8	38	1	33	157	5
Organic litter	48	24	50	3	27	56	3
Coarse woody debris	506	40	8	0	326	64	5
Large trees (euc plus non-euc)	19	4	21	5	7	37	5
Non-native plant cover	0	15	N/A	5	15	N/A	5
Total (out of 10)				4.625			6
Blossom species	40			19.41			19.41
Fruiting species	20			10			10
Seasonal continuity	30			25.8			25.8
Site Condition Score				59.835			61.21
MAX Site Condition Score				100			100
Site Condition Score - out of 4				2.39			2.45

Assessment Unit - Regional Ecosystem		Regrowth					
Trasect No.	Benchmark	Transect 4			Transect 5		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
<i>Recruitment of woody perennial species in EDL</i>	100	75	75	5	67	67	3
<i>Native plant species richness - trees</i>	6	6	100	5	5	83	2.5
<i>Native plant species richness - shrubs</i>	7	4	57	2.5	5	71	2.5
<i>Native plant species richness - grasses</i>	7	5	71	2.5	5	71	2.5
<i>Native plant species richness - forbes</i>	13	5	38	2.5	5	38	2.5
<i>Tree canopy height (average of emergent, canopy, sub-canopy)</i>	16.5	10	61	3	12.25	74	5
<i>Tree canopy cover (average of emergent, canopy, sub-canopy)</i>	42	23.5	56	5	39	93	5
<i>Shrub canopy cover</i>	6	1.5	25	3	0	0	0
<i>Native grass cover</i>	21	17	81	3	7	33	1
<i>Organic litter</i>	48	20	42	3	39	81	3
<i>Coarse woody debris</i>	506	480	95	5	425	84	5
<i>Large trees (euc plus non-euc)</i>	19	6	32	5	4	21	5
<i>Non-native plant cover</i>	0	40	N/A	3	10	N/A	5
Total (out of 10)				5.9375			5.25
Blossom species	40			19.41			19.41
Fruiting species	20			10			10
Seasonal continuity	30			25.8			25.8
Site Condition Score				61.1475			60.46
<i>MAX Site Condition Score</i>				<i>100</i>			<i>100</i>
Site Condition Score - out of 4				2.45			2.42

Assessment Unit - Regional Ecosystem		Disturbed			Disturbed		
Trasect No.	Benchmark	Transect 2			Transect 7		
Site condition	12.9-10.2	Raw Data	% Benchmark	Score	Raw Data	% Benchmark	Score
BioCondition							
<i>Recruitment of woody perennial species in EDL</i>	100	33	33	3	100	100	5
<i>Native plant species richness - trees</i>	6	6	100	5	3	50	2.5
<i>Native plant species richness - shrubs</i>	7	3	43	2.5	0	0	0
<i>Native plant species richness - grasses</i>	7	5	71	2.5	3	43	2.5
<i>Native plant species richness - forbes</i>	13	1	8	0	3	23	0
<i>Tree canopy height (average of emergent, canopy, sub-canopy)</i>	16.5	18	109	5	13	79	5
<i>Tree canopy cover (average of emergent, canopy, sub-canopy)</i>	42	19.3	46	2	10	24	2
<i>Shrub canopy cover</i>	6	3.4	57	5	0.5	8	0
<i>Native grass cover</i>	21	5	24	1	41	195	5
<i>Organic litter</i>	48	17	35	3	21	44	3
<i>Coarse woody debris</i>	506	95	19	2	231	46	5
<i>Large trees (euc plus non-euc)</i>	19	3	16	5	3	16	5
<i>Non-native plant cover</i>	0	90	0	0	30	N/A	3
Total (out of 10)				4.5			4.75
Blossom species	40			19.41			19.41
Fruiting species	20			10			10
Seasonal continuity	30			25.8			25.8
Site Condition Score				59.71			59.96
<i>MAX Site Condition Score</i>				<i>100</i>			<i>100</i>
Site Condition Score - out of 4				2.39			2.40

Site Context		
	Benchmark	Score
Size of patch	30	30
Context	10	4
Ecological Corridors	10	10
Power line density	30	8
Number of roosts	20	20
Site Context Score	100	72
MAX Site Context Score		
Site Context Score - out of 3 (all assessment units)	2.16	

Species Stocking Rate (SSR)							Remnant	Disturbed	Mesic	Regrowth
Species usage of the site (habitat type & evidenced usage)	Score	0	20	35			35	35	35	35
		Not habitat	Summer	Winter						
Maxent modelling	Score	0	10	25			25	10	25	25
		Not habitat	Regrowth	Remnant						
Range limit	Score	0		10			0	0	0	0
		No		Yes						
NSR proximity	Score	0	10	18	25		10	10	10	10
		Outside 40km	Within 21-40km	Within 11-20km	Within 10km					
Total SRR score (out of 100)							TOTAL	TOTAL	TOTAL	TOTAL
							70	55	70	70
							SRR Score (out of 3)	2.1	1.65	2.1

Final habitat quality score (weighted)	Remnant	Disturbed	Mesic	Regrowth	Average
Site Condition score (out of 4)	2.45	2.39	2.42	2.43	2.42
Site Context Score (out of 3)	2.16	2.16	2.16	2.16	2.16
Species Stocking Rate Score (out of 3)	2.10	1.65	2.10	2.10	1.99
Habitat Quality score (out of 10)	6.71	6.20	6.68	6.69	6.57
Total impact area (ha) for this VSU	9.40	13.7	15.8	16.00	13.73
Total area	54.90	54.90	54.90	54.90	54.90
% weighting	0.17	0.25	0.29	0.29	0.25
Size Weighting	1.15	1.55	1.92	1.95	1.64
TOTAL SCORE (10)	7				

14.2 OFFSET ASSESSMENT GUIDE (OAG)

Offsets Assessment Guide

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

This guide relies on Macros being enabled in your browser.

Matter of National Environmental Significance	
Name	Grey-headed Flying fox
EPBC Act status	Vulnerable
Annual probability of extinction Based on IUCN category definitions	0.2%





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

Impact calculator							
Impact calculator	Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact		Units	Information source
	Ecological communities						
	Area of community	No		Area			
				Quality			
				Total quantum of impact	0.00		
	Threatened species habitat						
	Area of habitat	Yes	Proposed clearing of native vegetation and habitat critical to the survival of the Grey-headed Flying-fox per the National Recovery Plan (2021).	Area	17.4	Hectares	Litoria Consulting Preliminary Documentation Report v 5.2 (July 2024)
				Quality	5	Scale 0-10	
				Total quantum of impact	8.70	Adjusted hectares	
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact		Units	Information source
	Number of features e.g. Nest hollows, habitat trees	No					
	Condition of habitat Change in habitat condition, but no change in extent	No					
	Threatened species						
	Birth rate e.g. Change in nest success	No					
	Mortality rate e.g. Change in number of road kills per year	No					
	Number of individuals e.g. Individual plants/animals	No					





Offset calculator																						
Offset calculator	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)	Start area and quality		Future area and quality without offset		Future area and quality with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source	
	Ecological Communities																					
	Area of community	No				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset		Risk of loss (%) with offset										
								Future area without offset (adjusted hectares)	0.0	Future area with offset (adjusted hectares)	0.0											
						Time until ecological benefit		Start quality (scale of 0-10)		Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)										
	Threatened species habitat																					
	Area of habitat	Yes	8.70	Adjusted hectares		Time over which loss is averted (max. 20 years)	20	Start area (hectares)	54	Risk of loss (%) without offset	0%	Risk of loss (%) with offset	0%									
								Future area without offset (adjusted hectares)	54.0	Future area with offset (adjusted hectares)	54.0											
						Time until ecological benefit	20	Start quality (scale of 0-10)	5	Future quality without offset (scale of 0-10)	5	Future quality with offset (scale of 0-10)	7	2.00	85%	1.70	1.63					
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)	Start value		Future value without offset		Future value with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net present value		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source	
	Number of features e.g. Nest hollows, habitat trees	No																				
	Condition of habitat Change in habitat condition, but no change in extent	No																				
	Threatened species																					
	Birth rate e.g. Change in nest success	No																				
	Mortality rate e.g. Change in number of road kills per year	No																				
	Number of individuals e.g. Individual plants/animals	No																				

Summary								
Summary	Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Cost (\$)		
						Direct offset (\$)	Other compensatory measures (\$)	Total (\$)
	Birth rate	0				\$0.00		\$0.00
	Mortality rate	0				\$0.00		\$0.00
	Number of individuals	0				\$0.00		\$0.00
	Number of features	0				\$0.00		\$0.00
	Condition of habitat	0				\$0.00		\$0.00
	Area of habitat	8.7	8.82	101.38%	Yes	\$0.00	N/A	\$0.00
	Area of community	0				\$0.00		\$0.00
						\$0.00	\$0.00	\$0.00





APPENDIX 14.3: BIOCONDITION TRANSECT DATA - IMPACT SITE

General				
Date:	12/08/2022	Site:	Transect 1	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.3.3	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	38			
Sub-canopy	6			
Shrub Cover:	Total Distance (m)			
Native	4			
Non-native	39			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	4			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	4			
Tree Height:				
Canopy	22			
Sub-canopy	10			
Recruitment:				
Number of Trees in EDL	3			
Number of EDL Trees Recruited	3			
PROPORTION OF EDL RECRUITMENT:	100%			
Tree Species Richness:				
Total Species Count	8			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	11.8					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	2					
Total Grass Species Count	0					
Total Forbs / Other Species Count	7					
Non-Native Plant Cover:						
Percentage	90					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	10	0	0	0	0	2
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	60	10	10	20	70	34
Non-Native Shrubs	10	80	10	15	10	25
Litter	15	10	70	30	10	27
Rock	0	0	0	0	0	0
Bare Ground	5	0	10	35	10	12
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	12/08/2022	Site:	Transect 2	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.3.3	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	55			
Sub-canopy	4			
Shrub Cover:	Total Distance (m)			
Native	0			
Non-native	0			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	5			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	5			
Tree Height:				
Canopy	22			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	5			
Number of EDL Trees Recruited	0			
PROPORTION OF EDL RECRUITMENT:	0%			
Tree Species Richness:				
Total Species Count	9			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	15.9					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	2					
Total Grass Species Count	2					
Total Forbs / Other Species Count	3					
Non-Native Plant Cover:						
Percentage	90					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	0	0	0	0	0	0
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	10	5	10	10	95	26
Non-Native Shrubs	5	10	30	90	0	27
Litter	65	5	60	0	0	26
Rock	0	65	0	0	0	13
Bare Ground	20	15	0	0	5	8
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	12/08/2022	Site:	Transect 3	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.3.3	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	23			
Sub-canopy	40			
Shrub Cover:				
Native	0			
Non-native	0			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	2			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	2			
Tree Height:				
Canopy	20			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	5			
Number of EDL Trees Recruited	0			
PROPORTION OF EDL RECRUITMENT:	0%			
Tree Species Richness:				
Total Species Count	9			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	0					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	1					
Total Grass Species Count	2					
Total Forbs / Other Species Count	5					
Non-Native Plant Cover:						
Percentage	70					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	0	0	70	0	90	32
Native Forbs and Other Species	0	60	0	0	0	12
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	50	10	10	30	0	20
Non-Native Shrubs	45	20	5	55	5	26
Litter	5	10	15	10	5	9
Rock	0	0	0	0	0	0
Bare Ground	0	0	0	5	0	1
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	12/08/2022	Site:	Transect 4	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	71			
Sub-canopy	0			
Shrub Cover:	Total Distance (m)			
Native	0			
Non-native	7			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	24			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	24			
Tree Height:				
Canopy	25			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	4			
Number of EDL Trees Recruited	3			
PROPORTION OF EDL RECRUITMENT:	75%			
Tree Species Richness:				
Total Species Count	7			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	33.7					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	0					
Total Grass Species Count	0					
Total Forbs / Other Species Count	0					
Non-Native Plant Cover:						
Percentage	100					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	0	0	0	0	0	0
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	75	40	50	60	30	51
Non-Native Shrubs	5	60	20	20	65	34
Litter	10	0	20	10	5	9
Rock	0	0	0	0	0	0
Bare Ground	10	0	10	10	0	6
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General					
Date:	12/08/2022	Site:	Transect 5	Property:	
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2		
Photos:					
Number		Number			
1		3			
2		4			
100m Transect					
Tree Cover:	Total Distance (m)				
Canopy	67.5				
Sub-canopy	5				
Shrub Cover:	Total Distance (m)				
Native	1.5				
Non-native	18.6				
100 x 50m Area					
Large Trees:					
Eucalypt Large Trees	14				
Non-Eucalypt Large Trees	0				
TOTAL LARGE TREES:	14				
Tree Height:					
Canopy	24				
Sub-canopy	7				
Recruitment:					
Number of Trees in EDL	3				
Number of EDL Trees Recruited	1				
PROPORTION OF EDL RECRUITMENT:	33%				
Tree Species Richness:					
Total Species Count	8				

50 x 20m Area						
Coarse Woody Debris:						
Length (m)	18.1					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	1					
Total Grass Species Count	1					
Total Forbs / Other Species Count	5					
Non-Native Plant Cover:						
Percentage	40					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	75	0	0	0	0	15
Native Forbs and Other Species	0	0	0	0	0	0
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	0	80	70	85	70	61
Non-Native Shrubs	10	0	5	5	5	5
Litter	15	15	10	5	10	11
Rock	0	0	0	0	0	0
Bare Ground	0	5	15	5	15	8
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100





General				
Date:	12/08/2022	Site:	Transect 6	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.3.7	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	40.5			
Sub-canopy	50.5			
Shrub Cover:	Total Distance (m)			
Native	0			
Non-native	1.5			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	3			
Non-Eucalypt Large Trees	2			
TOTAL LARGE TREES:	5			
Tree Height:				
Canopy	18			
Sub-canopy	12			
Recruitment:				
Number of Trees in EDL	5			
Number of EDL Trees Recruited	1			
PROPORTION OF EDL RECRUITMENT:	20%			
Tree Species Richness:				
Total Species Count	9			

50 x 20m Area						
Coarse Woody Debris:						
Length (m)	42.1					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	2					
Total Grass Species Count	1					
Total Forbs / Other Species Count	6					
Non-Native Plant Cover:						
Percentage	50					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	0	0	0	0	0	0
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	5	45	0	70	20	28
Non-Native Shrubs	30	20	90	20	60	44
Litter	25	15	10	10	15	15
Rock	0	0	0	0	0	0
Bare Ground	40	20	0	0	5	13
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100





General				
Date:	12/08/2022	Site:	Transect 7	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.3.7	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	75			
Sub-canopy	7			
Shrub Cover:				
Native	0			
Non-native	0			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	8			
Non-Eucalypt Large Trees	4			
TOTAL LARGE TREES:	12			
Tree Height:				
Canopy	18			
Sub-canopy	10			
Recruitment:				
Number of Trees in EDL	7			
Number of EDL Trees Recruited	1			
PROPORTION OF EDL RECRUITMENT:	14%			
Tree Species Richness:				
Total Species Count	7			

50 x 20m Area						
Coarse Woody Debris:						
Length (m)	20.4					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	2					
Total Grass Species Count	0					
Total Forbs / Other Species Count	2					
Non-Native Plant Cover:						
Percentage	85					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	0	0	0	0	0	0
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	5	5	20	0	0	6
Non-Native Shrubs	50	80	0	0	0	26
Litter	40	15	20	0	0	15
Rock	0	0	0	0	0	0
Bare Ground	5	0	60	0	0	13
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	0	0	60





APPENDIX 14.4: BIOCONDITION TRANSECT DATA - OFFSET SITE

General				
Date:	28/06/2023	Site:	Transect 1	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	60.7			
Sub-canopy	36.9			
Shrub Cover:				
Native	0			
Non-native	0			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	7			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	7			
Tree Height:				
Canopy	23			
Sub-canopy	10			
Recruitment:				
Number of Trees in EDL	2			
Number of EDL Trees Recruited	2			
PROPORTION OF EDL RECRUITMENT:	100%			
Tree Species Richness:				
Total Species Count	5			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	52.5					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	2					
Total Grass Species Count	4					
Total Forbs / Other Species Count	4					
Non-Native Plant Cover:						
Percentage	10					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	5	15	5	15	20	12
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	1	10	5	5	5	5.2
Native Shrubs	0	0	5	0	5	2
Non-Native Grass	0	0	0	0	0	0
Non-Native Shrubs	19	5	5	0	5	6.8
Litter	40	60	40	40	60	48
Rock	10	0	0	0	0	2
Bare Ground	25	10	40	40	5	24
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	28/06/2023	Site:	Transect 2	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	14.9			
Sub-canopy	23.7			
Shrub Cover:				
Native	3.4			
Non-native	3.2			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	3			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	3			
Tree Height:				
Canopy	26			
Sub-canopy	10			
Recruitment:				
Number of Trees in EDL	3			
Number of EDL Trees Recruited	1			
PROPORTION OF EDL RECRUITMENT:	33%			
Tree Species Richness:				
Total Species Count	6			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	9.5					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	3					
Total Grass Species Count	5					
Total Forbs / Other Species Count	1					
Non-Native Plant Cover:						
Percentage	90					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	5	10	10	0	0	5
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	0	0	15	0	25	8
Native Shrubs	0	15	0	0	0	3
Non-Native Grass	90	75	70	10	75	64
Non-Native Shrubs	0	0	5	10	0	3
Litter	5	0	0	80	0	17
Rock	0	0	0	0	0	0
Bare Ground	0	0	0	0	0	0
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	11/07/2023	Site:		Transect 3
Property:				
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	18			
Sub-canopy	29			
Shrub Cover:				
Native	1.5			
Non-native	8			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	0			
Non-Eucalypt Large Trees	6			
TOTAL LARGE TREES:	8			
Tree Height:				
Canopy	28			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	5			
Number of EDL Trees Recruited	5			
PROPORTION OF EDL RECRUITMENT:	100%			
Tree Species Richness:				
Total Species Count	6			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	4					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	0					
Total Grass Species Count	6					
Total Forbs / Other Species Count	8					
Non-Native Plant Cover:						
Percentage	15					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	10	5	5	10	10	8
Native Other Grass Cover	0	0	0	0	0	0
Native Forbs and Other Species	5	0	20	15	10	10
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	0	0	0	0	5	0
Non-Native Forbs & Shrubs	0	5	0	0	5	1
Litter	20	25	25	25	30	24
Rock	65	0	0	0	0	16
Bare Ground	0	65	50	50	40	41
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	11/07/2023	Site:	Transect 4	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	18			
Sub-canopy	29			
Shrub Cover:				
Native	1.5			
Non-native	8			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	3			
Non-Eucalypt Large Trees	3			
TOTAL LARGE TREES:	6			
Tree Height:				
Canopy	12			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	4			
Number of EDL Trees Recruited	3			
PROPORTION OF EDL RECRUITMENT:	75%			
Tree Species Richness:				
Total Species Count	6			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	48					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	4					
Total Grass Species Count	5					
Total Forbs / Other Species Count	5					
Non-Native Plant Cover:						
Percentage	40					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	40	10	20	10	5	17
Native Forbs and Other Species	5	10	10	0	0	5
Native Shrubs	0	10	0	0	0	2
Non-Native Grass	0	0	5	0	0	1
Non-Native Shrubs	5	20	5	40	50	24
Litter	30	20	30	10	10	20
Rock	0	0	0	0	10	2
Bare Ground	20	30	30	40	25	29
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	11/07/2023	Site:	Transect 5	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	43			
Sub-canopy	35			
Shrub Cover:				
Native	0			
Non-native	0			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	4			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	4			
Tree Height:				
Canopy	16			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	3			
Number of EDL Trees Recruited	2			
PROPORTION OF EDL RECRUITMENT:	67%			
Tree Species Richness:				
Total Species Count	5			





50 x 20m Area						
Coarse Woody Debris:						
Length (m)	42.5					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	5					
Total Grass Species Count	5					
Total Forbs / Other Species Count	5					
Non-Native Plant Cover:						
Percentage	10					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	15	0	5	10	5	7
Native Forbs and Other Species	0	5	0	0	5	2
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	0	0	0	0	0	0
Non-Native Shrubs	5	10	20	10	10	11
Litter	40	50	30	30	45	39
Rock	0	5	5	0	0	2
Bare Ground	40	30	40	50	35	39
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	29/06/2023	Site:	Transect 6	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	30.2			
Sub-canopy	25.9			
Shrub Cover:				
Native	0			
Non-native	0			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	7			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	7			
Tree Height:				
Canopy	17			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	2			
Number of EDL Trees Recruited	2			
PROPORTION OF EDL RECRUITMENT:	100%			
Tree Species Richness:				
Total Species Count	8			

50 x 20m Area						
Coarse Woody Debris:						
Length (m)	32.6					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	1					
Total Grass Species Count	4					
Total Forbs / Other Species Count	4					
Non-Native Plant Cover:						
Percentage	15					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	50	20	20	35	40	33
Native Forbs and Other Species	0	0	5	0	0	1
Native Shrubs	0	0	5	0	0	1
Non-Native Grass	0	0	0	0	0	0
Non-Native Shrubs	5	5	0	0	0	2
Litter	15	30	30	30	30	27
Rock	0	5	0	0	0	1
Bare Ground	30	40	40	35	30	35
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	29/06/2023	Site:		Transect 7
Property:				
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	19.5			
Sub-canopy	0			
Shrub Cover:	Total Distance (m)			
Native	0.5			
Non-native	0.5			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	3			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	3			
Tree Height:				
Canopy	18			
Sub-canopy	8			
Recruitment:				
Number of Trees in EDL	2			
Number of EDL Trees Recruited	2			
PROPORTION OF EDL RECRUITMENT:	100%			
Tree Species Richness:				
Total Species Count	3			

50 x 20m Area						
Coarse Woody Debris:						
Length (m)	23.1					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	0					
Total Grass Species Count	3					
Total Forbs / Other Species Count	3					
Non-Native Plant Cover:						
Percentage	30					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	40	40	50	40	35	41
Native Forbs and Other Species	15	5	5	0	0	5
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	0	0	0	0	0	0
Non-Native Shrubs	15	10	5	5	15	10
Litter	15	20	20	30	20	21
Rock	0	0	0	0	0	0
Bare Ground	15	25	20	25	30	23
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100

General				
Date:	29/06/2023	Site:	Transect 8	Property:
Bioregion:	South East Queensland	RE/Land Type:	12.9-10.2	
Photos:				
Number		Number		
1		3		
2		4		
100m Transect				
Tree Cover:	Total Distance (m)			
Canopy	62			
Sub-canopy	4.6			
Shrub Cover:				
Native	0			
Non-native	1			
100 x 50m Area				
Large Trees:				
Eucalypt Large Trees	9			
Non-Eucalypt Large Trees	0			
TOTAL LARGE TREES:	9			
Tree Height:				
Canopy	22			
Sub-canopy	12			
Recruitment:				
Number of Trees in EDL	3			
Number of EDL Trees Recruited	3			
PROPORTION OF EDL RECRUITMENT:	100%			
Tree Species Richness:				
Total Species Count	9			

50 x 20m Area						
Coarse Woody Debris:						
Length (m)	20.2					
50 x 10m Area						
Species Richness:						
Total Shrub Species Count	4					
Total Grass Species Count	4					
Total Forbs / Other Species Count	6					
Non-Native Plant Cover:						
Percentage	5					
1 x 1m Plots						
Ground Cover:						
Plot Number	1	2	3	4	5	Average
Native Perennial Grass Cover	0	0	0	0	0	0
Native Other Grass Cover	35	15	10	5	30	19
Native Forbs and Other Species	5	10	5	0	5	5
Native Shrubs	0	0	0	0	0	0
Non-Native Grass	0	0	0	0	0	0
Non-Native Shrubs	5	0	0	0	0	1
Litter	15	25	15	20	20	19
Rock	0	0	0	15	0	3
Bare Ground	40	50	70	60	45	53
Cryptograms	0	0	0	0	0	0
TOTALS:	100	100	100	100	100	100