

Appendix A

Vegetation Assessment Data Sheets



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A Carrie	Veç	geta	tion Monitoring [)ata S	hee	et		Job l	Numbe	er: S6	0665			
Site Number:	FL	0١	Assessor	. Je	3+ 0	-L				Date	. 20	1, 108	Ŝ /20	റെ
Location:	Larg	C	Remnant -	- Ga	S	Fields	S .						,20	00
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			03.614 Lo											
				ngitua	e / ı	Northing	:	o. 		٧ ١	<i>/</i> vaypo	oint #:	001	
Photo:2	Ö Ə.A.	!	2022	• • • • • • • • •			••••					• • • • • • • •		
Soil Colour	Soil	Sec	ondary Texture	Soil P	rim	ary Text	ure	Oth	er Soil	Notes	•	· · · · ·		
Whitish			Clayey			Clay	<u></u>	0	<u> </u>					
Pale	!		Silty			Silt								
Yellow Orange			Sandy Gravely		_	oam) Sand								
Brown		•	Stony		_	Gravel								
Red			,											
Dark Black			1,200		Sali	ne Mud								
Mottled			•											
Altitude:!.	45.		m Slope: .	Gen)+l <			. ,	Aspec	t: N; NI	Ξ; Ε; S	E; S; S	w; w; (
Table 24 CORVEG landform	n situation o	odes	Landform situation	Code		Table 25 CORV	EG typ	es of erosion	al landform	patterns by s	lope and re	ief class coo	les	
PLAIN			HILLS, MOUNTAINS, TABLELANDS			Slope class		\sim						
Not otherwise specified, flat g slopes, undulating terrain	gentle ((A)	Slope or hill not specified	F		Class	LE Level	VG Very	GE Gently	MO Moderately	ST Steep	VS Very	PR Precipitous	
Downs, open downs, rolling d ashy downs, pebbly downs	lowns,	_	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	L		,		gently inclined	inclined	inclined		steep		
			crevices			Percentage Degrees (rounded to	0	1-2	3–10 3–6	10–32 7–18	32–56 19–29	56–100 30–45	100 >45	
Alluvial plain or flat, alluvium,	flood plain	В	Coastal rocky headland	N		nearest whole number)								
Inland clay pan, salt flat or pa Tidal flat, salt flat (coastal)		V V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q		Relief class			Erosional la	ndform patte	em .			
STREAMS			DUNE			M Very high >300 m (about	-	-	-	RM Rolling	SM Steep	VM	PM	
Lakes, banks of lake, river, st water course, levees + perma		С	Fossil coastal dune, high dune	s		500 m)				mountains	mountains	Very steep mountains	Precipitous	
Gully, drainage line, ravine go outwash— + intermittently we		D	Unspecified coastal dune, beach dune, recent coastal dune, low dune, coastal			H High 90-	-	-	UH Undulating	RH Rolling	SH Steep hills	VH Very	PH Precipitous	
Bed of channel—distributaries	s of inland	E	sandhill Inland dune, inland sandhill	 		300 m (about 150 m)			hilfs	hilis		steep hills	hills	
streams, beds + intermittently	flooded					L Low 30- 90 m (about	-	+	UL Undulating	RL Rolling low	SL Steep low	VL ∀ery	B Badiands	
		<u> </u>	WATER			50 m)			low hills	hills	hills	steep low hills		∽ .
			Freshwater lake, lagoon, spring, stream	n X		R Very low 9- 30 m (about 15 m)	-	GR Gently undulating	UR Undulating rises	RR Rolling rises	SR Steep rises	B Badlands	B Badlands	
			Freshwater swamp, marsh, soak, seepage area	w		P Extremely	LP /	Diseas GP	UP	RP	В	В	6	
			Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Y		low <9 m)	Level plain	Gently 'undulating	Undulating plain	Rolling plain	badlands	Badlands	Badlands	
<u>Disturbance</u> Fire scars:)		2-3m his	•			••••	plain			• • • • • • •		%.!	
Weeds:This														
			······································			• • • • • • • • • • • •	• • • • •				• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••		
Other:Log	39.!!!	9		•••••			• • • • •			• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	≲.%.\$	2
Health: Pristing	ne / Ex	celle	nt / Very Good) Good	l / Avera	age	/ Degrade	ed /	Complet	ely Deg	raded (a	most wi	thout na	tives)	
Special signifi	icanc	<u>e</u>												
Cultural:			•••••											
Recreational:												•		
		s†	large remna	ו לרוו	····	avec	,	• • • • • • • •	• • • • • • •					•••
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Commercial:			ica l'acas is	``````			· · · · ·			.,			• • • • • • • • • •	• • •
Otner Notes:	.!!!!!	المكارا	ise impacts - t	41114		urge !	7701	$\zeta I = V C$	rnria	, , , , , , , , , , , , , , , , , , ,	JUT Ch	3.,		

Width of community: <35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear

Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear (mapping)

Total community area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha Total remnant area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha

50m X 10m Plot Information

Exocarpus cupressiformas

Acacia falcata

Canopy Stratum Form: (Tree) Shrub; Herb; Grass; Aquatic

5m

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			<51. Bare ground
Canopy	15m	30%	
Mid	1.5m	30%	- -
Ground	0.5m	50 %	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form Ht (m) E T2 Dom. <u>T1</u> T3 S1 S2 G 15m E. propingua Tree A E ambra Tree 12m E. siderophloia 0 Tree 12m

Tree

0

R

020thamnus diosmifolius (s) \square 1:5m Shrub Acacia ulicifolia F shrub Im Pullenea villosa F Shrub Im (shota 2634-6) (\leq) Entolasia stricta А 0.5 Pratia purpurascens (s) 0.1

Hardenbergia violacea 0 0.2 Senecio madagascavensis (5) R 0.3 (Thestle) Civ sium vulgare R 03

+ E. microcorys R

+ Bursaria Shinasa R

DKEITH-NSW 21- NORTHERN HINTERLAND SEMI-MESIC FOREST
DCRA-FE 134- SOUTH COAST SHRUBBY GREY BUM

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

	Vegetation Monitoring Data Sheet						Job Number: S60665						
Site Number	EL	O2 Assesso	r. \	B+CL				Data	. 20	1 10	8 120	ıΛο	
Location:	Lavae	e remnant	'- G	as Fek		• • • • • • • •		Date		·/	.Y/20	IUO	
	$\overline{}$			GDA94) WGS		۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰			E			• • • •	
			_										
Latitude / Ea			ongitua	e 7 Northing	·	• • • • • • • •		'	waypo	oint #:	002	••••	
Pnoto:	2001-	1.2000		•••••									
Soil Colour	Soil Se	econdary Texture	Soil P	rimary Text	ure	Oth	er Soil	Notes	3				
Whitish		Clayey		Clay			_						
Pale Yellow		Sility		Silt									
Orange		Gravely		Sand									
Brown		Stony		Gravel									
Red Dark				Saline Mud									
Black	ĺ		İ	Sumo Mag									
Mottled			<u> </u>										
Altitude:	133	m Slone:					Manaa	f- ki. kii	F. F. 0	-(3)	NA/- NA/- N		
		lating Plain			••••	. /	Aspec	L. IN; INI	±;	E(S;)S	5VV; VV; I	AVV	
Table 24 CORVEG landform		\cup	• • • • • • • • • •	Table 25 CORV	 EC har							••••	
Landform situation		ode Landform situation	Code	Slope class	ев тур	es of erosion	iai ianuioim	patterns by s	siope and re	iei ciass cod	des .		
PLAIN Not otherwise specified, flat of	antle /	HILLS, MOUNTAINS, TABLELANDS Slope or hill not specified		Class	LE	VG /	GE	МО	ST	VS	PR		
slopes, undulating terrain Downs, open downs, rolling d		Cliff (steep rocky faces), rocky ledge			Level	Very gently inclined	Gently inclined	Moderately inclined	Steep	Very steep	Precipitous		
ashy downs, pebbly downs		rocky outcrop, scarp, crack in rock, crevices		Percentage Degrees	<1 0	1-3	3–10 3–6	10–32 7–18	32–56 19–29	56-100 30-45	100		
				(rounded to nearest whole									
Alluvial plain or flat, alluvium, Inland clay pan, salt flat or pa Tidal flat, salt flat (coastal)		Coastal rocky headland Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q	number) Relief class		l	Frosional Is	ndform patte	em	l	L		
STREAMS		DUNE	- u	M Very high	_	-	-	RM	SM	VM	PM		
Lakes, banks of lake, river, st water course, levees + perma		Fossil coastal dune, high dune	s	>300 m (about 500 m)				Rolling mountains	Steep mountains	Very steep	Precipitous		
Gully, drainage line, ravine go	orge, D	Unspecified coastal dune, beach dun		H High 90-	-	-	UH Undulating	RH Rolling	SH Steep hilis	mountains VH Very	PH Precipitous		
outwash— + intermittently we Bed of channel—distributaries		recent coastal dune, low dune, coasta sandhill Inland dune, inland sandhili	al T	300 m (about 150 m)			hills	hills		steep hills	hills		
streams, beds + intermittently		mand dute, mand sanding		L Low 30- 90 m (about	_	-	UL Undulating	RL Rolling low	SL. Steep low	VL Very	B Badlands		
·				50 m)			low hills	hills	hills	steep low hills			
		WATER Freshwater lake, lagoon, spring, stres	am X	R Very low 9 30 m (about 15 m)	-	GR Gently undulating	UR Undulating rises	RR Rolling rises	SR Steep rises	8 Sadlands	8 Badiands		
		Freshwater swamp, marsh, soak, seepage area	W	P Extremely	LP	rises	XIP X	RP	В	В	8		
		Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y	low <9 m)	Level plain		Undulating plain	Rolling stain	badiands	Badlands	Badlands		
Disturbance		-/ola - 3n re/canid				plain		<u></u>			L		
Fire scars:	Slight	-/ola - 3n	n so	car							<.%	5	
Feral animal:	Har	e/canid									%		
Weeds:	/										<.%.	Ė	
Other Trac	* / e	excavator diggir	nas s	5m × 5m		earb	u /10	mirc	2 ne	7/h	4 0/.		
Other			·J	······································					٠,۱۶		J 70		
Health: Pristin	ne / Exce	ellent / Very Good /)Goo	nd / Aver	age / Degrade	d / b	Complet	elv Dea	raded (a	lmost wi	thout na	atives)		
		, sold ,	, , , , , , ,	ago / Bogiado	u ,	Complet	ory bog	uucu (u	iiiioot wi	ti lout ric	10100)		
Special signif													
Cultural:							•••••						
Recreational:		*********											
Conservation	Las	t large vem	nant	in av	ea								
Commercial:.		•••••								.			
Other Notes:	Minik	mise impads -	- fair	ly lara	e	inta	ct i	emn	ant	-			
veg. par	tch		(<i>Jy</i> .							•••••	•••	
yF.					• • • • •		• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •	,	
•••••					• • • • •							•••	

Width of community: <35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; (not linear) Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha Total remnant area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			* Bare ground < 5%
Canopy	16 m	30%	
Mid	1.5m	10./.	
Ground	0.5m	50 /	

All woody species present within 50m			domina			d non-wo	ody spe	cies)	
Species	Rel.	Form	E	Ht T1	(m) T2	T3	S1	S2	G
E moluccana	D	Tree		16m	12	13	31	32	G
E siderophloia	0	Tree		Ilom	-				
E umbra	0	Tree		16m					
Exocarpus cupressaformis	F	Tree				-			
	F	Shrub		lom			\		
Acacia ulifolcia Ozothamus diosmifoliys		Shrub		 			1.5m		
					,		15m		0 00
Hardenbergia violaceo	0	Vinc							0 20
Bursavia spinosa	F	Shrub					Im		
Pratia purpurascens	0	Herb	,						0.10
(entaury spp. (s)	0	Herb							0.2
Lomandra longifolia	0	Herb							0.5
Hibbertia aspera	F	Herb							0,5
Themeda trianara	Α	grass		·					0.3
Poq sieberiana (5)	F	grass							0.3
Imperata cylinarica (blody)	F	grass						-	0.6
Jacksonia scoparia	R	Tree		5m					
Senccio madagasaviensis	0	Heb							0.2
Hypochaeris radicata.	0	Herb			<u> </u>				0.1
					···-				
+ Clematis aristata		V							-
+ Alectryon tomentosum	R	Tree		5m					
+ Notelaea venosa (5)									
* KEITH - NSW21- NORTHE	RN H	INTERL	AND	SEMI-	MESIC	FORE	51		
*) CRA - ?									

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling; H= NC(B) / Tike = T Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

Site Number:	F	LO.	ろ Assessor River よ DC	·	JB+	راً ـ				Date	: 2°	1., 0	<u>ි</u> /2008
Location:	Ayor	١,	River & DC	<u>9</u>	Ivac	<u> </u>	Y.C.	CK.	(00	I Fie	ias)	;	
			ong(UTM) Da	itum	1: GD/	N94:) WG	S84;	AGD8	4	Zone	ə: ⁵	36	
Latitude / Eas	sting:	QL.	t01948 Lo	ngit	tude / I	Northing	: .6	244.9	727k	۱	Waypo	oint #:	003
Photo:	263	9.,	/2640		•••••							•••••	
Soil Colour	Soil	Sec	ondary Texture	Soi	il Prima	ary Text	ure	Oth	er Soi	Notes	3		
Whitish			Clayey			Clay	-		· · ·	· · · · · · · · · · · · · · · · · · ·			
Pale Yellow			Silty Sandy			Silt .oam							
Orange			Gravely			Sand							
Brown			Stony		ي ر	ravel							
Red Dark					Sali	ne Mud							
Black					Jan	ile ivida							•
Mottled													
Altitude:\	16		m Clana:						A on o o	4			
Landform:	CNE	ex.	m Slope: . bank m	d	erat	ماء م	e	· /'	Aspec	L. N; N	=; =; > -0	E; 5; 5	>vv; vv; nvv
Table 24 CORVEG landform			1001110	٠٠٠:									
Landform situation	Situation C	Code	Landform situation	Cod	de	Slope class	ЕС тур	es or erosior	nai iangrorm	patterns by :	siope and re	HET CIASS CO	ges
PLAIN Not otherwise specified, flat of	antle.	٨	HILLS, MOUNTAINS, TABLELANDS Slope or hill not specified	F		Class	LE	Ve)	GE	MO	ST	VS	PR
slopes, undulating terrain Downs, open downs, rolling d		•	Cliff (steep rocky faces), rocky ledge,	- L	_		Level	/ery gently inclined	Gently inclined	Moderately inclined	Steep	Very steep	Precipitous
ashy downs, pebbly downs	-		rocky outcrop, scarp, crack in rock, crevices			Percentage Degrees	<1 0	1-2	3-10 3-6	10–32 7–18	32–56 19–29	56-100 30-45	100 >45
						(rounded to nearest whole							
Alluvial plain or flat, alluvium. Inland clay pan, salt flat or pa Tidal flat, salt flat (coastal)	n (inland)	U V	Coastal rocky headland Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q		number) Relief class		l	Erosional la	andform patt	em		L
STREAMS			DUNE			M Very high	-	-	I-	RM	SM	VM	PM
Lakes, banks of lake, river, st water course, levees + perma		9	Fossil coastal dune, high dune	s	\dashv	>300 m (about 500 m)				Rolling mountains	Steep mountains	Very steep	Precipitous
Gully, drainage line, ravine go	orge,	D	Unspecified coastal dune, beach dune			H High 90-	-	-	UH Undulating	RH Rolling	SH Steep hills	mountains VH Very	PH Precipitous
outwash— + intermittently we Bed of channel—distributaries		E	recent coastal dune, low dune, coastal sandhill Inland dune, inland sandhill	T		300 m (about 150 m)			hills	hills		steep hilis	hills
streams, beds + intermittently		_	mare duric, injure salidita			L Low 30– 90 m (about	-	-	UL Undulating	RL Rolling low	SL Steep low	VL Very	B Badiands
				-		50 m)			low hills	hilis	hills	steep low hills	
			WATER Freshwater lake, lagoon, spring, strear	n X		R Very low 9– 30 m (about 15 m)	_	GR Gently undulating	UR Undulating rises	RR Rolling rises	SR Steep rises	B Badlands	B Badlands
			Freshwater swamp, marsh, soak, seepage area	W Z		P Extremely	LP /	risee GP	UP	RP	В	В	В
			Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Ϋ́		low <9 m)	Level plair	Gently undulating	Undulating pláin	Rolling plain	badiands	Badlands	Badlands
Disturbance								plain		l	<u> </u>		I
Fire scars:													%
Feral animal:		-											%
Weeds:	✓												%5
Other: .6/2	zina	С	ows.			• • • • • • • • • • • • • • • • • • • •						•••••	0/.
Othor:	·····		•••••••••			•••••	••••	• • • • • • •					/0
Health: Pristing	ne / Ex	celler	nt / Very Good / Good	A (E	Average	/ Degrade	d /	Complet	tely Deg	raded (a	lmost w	ithout na	atives)
Special signif	icance	<u> </u>											,
Cultural:			*******************										
Recreational:													
Conservation	+10	أطرة	tat.carmido	V .	/ 🗸	eg or		 セン	tent	s 5-	100	, fra)m
Commercial:.			•••••		/		:			∺	ىن	ranr	nel
Other Notes:		• • • • •		• • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •				• • • • • • •			
Outer moles.		• • • • •	•	• • • • •	• • • • • • • • • • • • • • • • • • • •			••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • •		• • • • • • • • • • • • • • • • • • • •
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Vegetation Monitoring Data Sheet

Job Number: S60665

Width of community: <35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha Total remnant area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			some bare dirt arand exposed
Canopy	14 m	70	banks
Mid	8m	50	+ some elosion,
Ground	0.20m	60	1

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) **Species** Rel. Form Ht (m) Dom. T1 <u>T2</u> Ε T3 G 0 Tree 14 Angophora subvelutina Tree Acacia irrorata 0 Callistemon salignus. (S) \bigcirc Tree 0 Hymenanthera dentata (s) Shrub Casuarina cunninghamiana Tree 14 Solanum mauritianum (toballo) 2 Lomandra hystrix F Hero 06 Ligustrum sienense (print) F ** Snrub 6 Prunus persica F tree 4 Cynodon dactulon Grass 0-2 + E. tereticornis 0 * CRA - FE 47 - REDGUM - APPLE

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	Veg	eta	tion Monitoring l	Data S	She	et		Job	Numbe	er: S6	0665			
Site Number:	FI	_ 0	Assessor	<i>ا</i> ل. :م	3+ C	<u>. </u>				Date	. 01		⁹ /200	റമ
			er zone (s				Ρ			_				,,
		-				A94;)WG								•••
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P11010	A.Y	<i>:./</i>		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • •	• • • • •	• • • • • • • •	• • • • • • •		•••••	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • •
Soil Colour	Soil	Sec	ondary Texture	Soil I	Prim	ary Text	ure	Oth	er Soil	Notes	3			
Whitish	•		Clayey			Clay							h	
Pale Yellow			Silty Sandy		ďΊ	Silt								-
Orange			Gravely		9	Sand								
Brown			Stony	ı	G	Gravel								
Red (Dark)					Sal	ine Mud								
Black					Ju	o maa								
Mottled				-										
Altitude:	121		m Slope: .						Aspec	t: N· NI	F· F· S	F: S: S	N (W) N	W.
			entle inclina						юроо		_, _, 0	_, 0, 0		
Table 24 CORVES landform	situation co		Landform situation			Table 25 CORV	EG typ	es of erosion	nal landform	patterns by s	slope and re	lief class co	des	 9.
PLAIN		code	HILLS, MOUNTAINS, TABLELANDS	Code		Slope class								_
Not otherwise specified, flat go slopes, undulating terrain	entie	A)	Slope or hill not specified	F		Class	LE Level	Very	GE Gently	MO Moderately	ST Steep	VS Very	PR Precipitous	
Downs, open downs, rolling do ashy downs, pebbly downs	owns,	•	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	L		Domest-	(gently inclined	inclined	inclined		steep		
			crevices			Percentage Degrees (rounded to	0	1-2	3–10 3–6	10–32 7–18	32–56 19–29	56–100 30–45	100 >45	
Alluvial plain or flat, alluvium, f		Б	Coastal rocky headland	N	}	nearest whole number)								
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	Q		Relief class			Erosional la	ındform pattı	ern			
STREAMS			DUNE			M Very high >300 m (about	-	-	-	RM Rolling	SM Steep	VM ∀ery	PM Precipitous	
Lakes, banks of lake, river, str water course, levees + perman		С	Fossil coastal dune, high dune	S		500 m)				mountains	mountains	steep mountains		
Gully, drainage line, ravine gor outwash— + intermittently wet		D	Unspecified coastal dune, beach dune recent coastal dune, low dune, coastal			H High 90- 300 m	-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		E	sandhill Inland dune, inland sandhill	Т		(about 150 m)								
obbanis, boso i meninacina	noodbu					L Low 30- 90 m (about 50 m)	-	-	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very steep low	B Badlands	
			WATER		-	R Very low 9-		GR	UR	RR	SR	hills B	В	
			Freshwater lake, lagoon, spring, stream	m X W		30 m (about 15 m)		Gently undulating rises	Undulating rises	Rolling rises	Steep rises	Badlands	Badlands	
			seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z		P Extremely low <9 m)	LP /	GP \ Gently	UP Undulating	RP Rolling	B badlands	B Badlands	B Badiands	
Distant							plaín	undulating plain	piaiii	plain				
<u>Disturbance</u>	m o di	e.c	te 2-4m					***************************************					0,5	-
				`				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	%.⊅.	•
	• • • • • • • • • • • • • • • • • • • •	• • • • •			• • • • • •		• • • •		• • • • • • • •			• • • • • • •	%	
Weeds:		• • • • •			• • • • • •		••••	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	•••••	%	
Other:E	1CMC6	2	of previous	99:	<i>.</i> 9.	/ tract	<u> </u>		• • • • • • • • • • • • • • • • • • • •		• • • • • • • •		%)
Health: Pristin	e / Exc	celler	nt / Very Good / Goo	d (Ave	rage	/ Degrade	d /	Complet	ely Deg	raded (a	lmost wi	thout na	atives)	
Special signifi	cance)												
Cultural:	-													
Recreational:		• • • • •					• • • • •						• • • • • • • • • • • • • • • • • • • •	••
		m	aining last	10	100	 م زحمه	 o	yem	nant	1.00	etahi			
		• • • • •				<i>j</i>	۶	.7.3777		<i>ve.g</i> .	L 1 -7 //			
Commercial:			o to he has		·····	~ ~	·····		· · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	٠٠٠٠٠٠		
			to be pos				? .	VTN	ימחרי	?7	0041	7 <i>01011</i>	<i>J</i>	••
In GIVEOR	uy	.C.I.C.	aied pastu	re /	ano	?								
			• • • • • • • • • • • • • • • • • • • •											

Width of community: <35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; (not linear) Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; >50ha Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			Bare ground = 0 mostly leaf litter/organic debris
Canopy	16	50	mostly leaf litter/organic debits
Mid	4	10	-]
Ground	04	60	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form Ht (m) Dom. T1 T3 T2 G T \bigcirc E. moluccana 16 E. siderophloia D 16 1 E. ambra Α 16 callistemon salignus Α Smil T Native 2 Exocolpus cupressi Polmis Cherry R sm! T Acacia ulcifolia 0 Sh 1 Bursaria spinosa Sh 0 15 Leviopogon juniperensis Sh 0.5 F Sh Pultenaca villosa Dianella caerulea \bigcirc G Them.edg triandra Entolosia stricta G Δ 0.4 SCLER OPHYLL FOREST KEITH-NSW69-HUNTER MACLEAY DRY CRA-FE71- IRONBARK

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

	Veg	jeta	tion Monitoring D		Job Number: S60665									
Site Number	FaL	05	5 Assessor:		JB-	+ CL				Dato	. 30	5 / 0	[©] /2€	າກເ
Location:	KP	10	10 (West of		vati	IVE DE		wwe)		Date		/ . .	/2t	JUC
						49) ; WG				700	51	···········	• • • • • • • •	••••
														• • • •
			298.698 Loi	ngitt	ıae /	Noπning	J:		f.O.T.		wayp	oint #:	.١١	•••
Pnoto:	4.Q.Q	? 	/ 2663	••••	• • • • • •		• • • • •	• • • • • • • •	• • • • • • •					
Soil Colour	Soil	Sec	ondary Texture	Soil	Prim	ary Text	ure	Oth	er Soi	Notes	 S			
Whitish			Clayey			Clay						"		
Pale Yellow			Sandy		(Silt) ₋oam								
Orange	•		Gravely			Sand								
Brown			Stony		C	Gravel								
Red Dark					Sal	ine Mud								
Black							,							
Mottled														
Altitude:	56		m Slope:						Aspec	t· N· N	F· F· S	F S S	SW; W; I	NW
	iUllu		•	0	Mod	derat	<u>e</u>	Slop	ح تر	ماری اکام د	coveo	1, 0, 0	astuve	2
Table 24 CORVEG landform		odes	land to N	+5		Table 25 COR								*
Landform situation	-	Code	Landform situation HILLS, MOUNTAINS, TABLELANDS	Code		Slope class			_					
Not otherwise specified, flat ge slopes, undulating terrain	entle	A	Slope or hill not specified	F	\dashv	Class	LE Level	VG Very	GE Gently	MO Moderately	ST Steep	VS Very	PR Precipitous	
Downs, open downs, rolling do ashy downs, pebbly downs	wns,	*	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock.	L	1	Percentage	<1	gently	inclined	inclined	22.50	steep	1400	ŀ
			crevices			Degrees (rounded to	0	1-3	3-6	10–32 7–18	32–56 19–29	56-100 30-45	100 >45	
Alluvial plain or flat, alluvium, fi		В	Coastal rocky headland	N		nearest whole number)		<u> </u>	<u> </u>					
Inland clay pan, salt flat or pan Tidal flat, salt flat (coastal)		V V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	Q		Relief class			Erosional la	andform patt	em	~		
STREAMS Lakes, banks of lake, river, stre		^	DUNE			M Very high >300 m (about	-	-	-	RM Rolling	SM Steep	V M Very	PM Precipitous	
water course, levees + perman	nent water	° —	Fossil coastal dune, high dune	s		500 m)		_	UH	mountains	mountains	st cep mountains VH	PH	
Gully, drainage line, ravine gor outwash— + intermittently wet		9)	Unspecified coastal dune, beach dune, recent coastal dune, low dune, coastal sandhill	R		High 90- 300 m			Undulating hills	Rolling hills	Steep hills		Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently f		E .	Inland dune, inland sandhill	Т		(about 150 m)	-	<u> </u>	UL	RL	SL	VL.	В	
				1	_	90 m (about 50 m)			Undulating low hills	Rolling low hills	Steep low hills	Very steep low	Badlands	
•			WATER			R Very low 9- 30 m (about	-	GR Gently	UR Undulating	RR Rolling	SR Steep	hills B Badlands	B Badlands	
			Freshwater lake, lagoon, spring, stream Freshwater swamp, marsh, soak, seepage area	W	-	15 m)	LP	undulating rises	rises	rises	rises			
			Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y	3	P Extremely low <9 m)	Level plain	GP Gently undulating	UP Undulating plain	RP Rolling plain	B badlands	B Badlands	B Badlands	
Disturbance								plain		L	<u> </u>	L		
Fire scars:			•										0/2	
Feral animal:	Rak	doit	•••••										,	•
Weeds: Fire						•••••				• • • • • • • •			/6 <%5	5
			oed down/ (`` `C∕A`		20K5/	Φ,	iiden	e of	````	01+	المحزيما		ر
Otherse	,				25.5	<i></i>	ب. ب.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · ·	ا		w. As	15	7
Health: Pristing	e / Ex	celle	nt / Very Good Good	/ Av	erage	/ Degrade	hed /	Comple	telv Dea	raded (a	lmost w	ithout na	atives)	۲,
				, , ,	orago	, Dogrado	, ,	Compio	oly Dog	i uuou (u		iti lout He	ativos,	
Special signification	cance	2												
Cultural:	`	• • • • •	•••••		• • • • • • •									
Recreational:														
Conservation:	Hab	itat	- values ,					· • • • • • • • •						
Commercial:														
Other Notes:														
					. <i></i>		<i>.</i>							
				•									• • • •	

Width of community: <35m wide; (35-75m); 75-150m; 150-300m; >300; not linear	
Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300 (not linear)	
Total community area: Does not extend beyond site; <1ha; (1-5ha;) 5-20ha; 20-50ha; >50h	ıa
Total remnant area: Does not extend beyond site; <1ha ; 1-5ha, 5-20ha ; 20-50ha ; >50ha	

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			
Canopy	18	50	
Mid	4	5	1
Ground	0.2	30 → bare avo	und 20%.

All woody species present within 50m x Species	Rel.	Form	1	Ht	(m)				
	Dom.		E	T1 /	T2	T3	S1	S2	G
Corymbia citriodora	0	I		18					
E Siderophloia	A	T		18					
F. umbra	Ď	T		18					
Allo casuarina torulsa	Ö	T				6			
Melaleuca. linearifolius	0	T				6			
Acacia Errorata	0	Sh				4			
Bursaria spinasa	Α	Sh					1.5		
Leu copogon junipernus	F	Sh					J		r
Acacia ulcifolia	6	Sh					1		
Ozothamnus diosmifolius	R	Sh					0.6		
The Contract of the Contract o									
Imperata cilindrica.	A	G			***				0.
Hardenbergia violacea		V							
Senecio madagascariensis		H							0.
	·								
* KEITH - NSW B9 - HUNTI	R MA	CLEAY	DRY	SOLER	OPHAIL	PORES			
* KEITH - NSW 69 - HUNTI * CRA- FE 33 - DRY	FOOTH	DL 1.5	SPOTT	ED GU	M	,			
		<u></u>							
		· · ·							
·	ı			ı	Į.			1	1

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot
Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum
Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	veg	geta	tion Me	onitoring i	Data	Snee	et		Job	Numb	er: S6	0665			
Site Number:	FL	0	6	Assessor	-:	JB-	1.CL				Date	. 30	ه ر د	8 /200	8
Location:!	<p td="" <=""><td>14.</td><td>3 C</td><td>veek/vii</td><td>oavi</td><td>an</td><td>vea.</td><td></td><td></td><td></td><td></td><td>,</td><td></td><td>,200</td><td></td></p>	14.	3 C	veek/vii	oavi	an	vea.					,		,200	
GPS Projection							A94;)WG	 	(AOD	· · · · · · · · · · · · · · · · · · ·			56		• •
Latitude / Eas				56		GD	A94, JVVG	584;	AGD8	94 2 (-	2011 26-5	3 •	٠	~	•
					ongiti	uae /	Northing	ı:	04	:56	ر برجرد	waypo	oint #:	<u>برا</u>	• •
Photo:2	-Ю.J.Z		, . <i>L</i> .Ю. J.	⊃		• • • • • • •	• • • • • • • • • • • • • • • • • • • •				•••	•••••	• • • • • • •		
Soil Colour	Soil	Sec	ondarv	Texture	Soil	Prim	ary Text	ure	Oth	er Soi	Notes	<u> </u>	•		
Whitish			Clayey				Clay		-	<u> </u>	, , , , ,				
Pale			Silty				Silt								
Yellow Orange			Sandy Gravely)			Loam Sand								
Brown			Stony				Gravel								
Red Dark															
Black															
Mottled															
A 14*4 1	95														
Altitude:	.95	· · · · · ·	m	Slope: .	• • • • • •				. , .	Aspec	t: N; Ni	E; E; S	E; S; S	SW; W; NV	٧
Landform:			15	10derate	+c	S 5 5	eep	(3	n 6	ank,	<u>) </u>			• • • • • • • • • • • • • • • • • • • •	
Table 24 CORVEG landform Landform situation	situation c	odes Code	Landform situ	ation	Code		Table 25 CORV	/EG typ	es of erosio	nal landform	patterns by	slope and re	ief class co	des	
PLAIN			HILLS, MOUN	TAINS, TABLELANDS			Slope class	LE	l vg	Ice	ТМО	ST	Īvs	PR	
Not otherwise specified, flat g- stopes, undulating terrain Downs, open downs, rolling do		Α .	Slope or hill no		F		Class	Level		Gently inclined	Moderately inclined	Steep	Very steep	Precipitous	
ashy downs, pebbly downs	owns,			ky faces), rocky ledge, scarp, crack in rock,	L		Percentage	<1	inclined 1–3	3-10	10–32	32–56	56-100	100	
						-	Degrees (rounded to nearest whole	0	1-2	3–6	7–18	19–29	30-45	>45	
Alluvial plain or flat, alluvium, t Inland clay pan, salt flat or par		B U	Coastal rocky I	neadland countain or ridge	N K	=	number)							<u> </u>	
Tidal flat, salt flat (coastal) STREAMS		V	Jump-up, mess	a, tableland, plateau	Q		Relief class	1		Erosional la	andform patt		1	1	
Lakes, banks of lake, river, str		$\widehat{}$		fune, high dune	s	_	M Very high >300 m (about 500 m)	-	-	-	RM Rolling mountains	SM Steep mountains	VM Very steep	PM Precipitous	
water course, levees + permai	ነ		Unengoified co	astal dune, beach dune,	. R		Н	-	_	UH	RH	SH	mountains VH	PH	
outwash— + intermittently wet	t		recent coastal	dune, low dune, coastal			High 90- 300 m (about 150 m)			Undulating hills	Rolling hills	Steep hills	Very steep hills	Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		E	Inland dune, in	and sandhill	٢		L Low 30-	-	<u>-</u>	UL	RL	SL	VL	В	
					\bot	_	90 m (about 50 m)			Undulating low hills	Rolling low hills	Steep low hills	∀ery steep low hills	Badlands	
			WATER				R Very low 9– 30 m (about	-	GR Gently	UR Undulating	RR Rolling	SR Steep	B Badiands	B Badlands	
				e, lagoon, spring, strean amp, marsh, soak,	n X W	-	15 m)		undulating rises	rises	rises	rises			
			Gilgai, melon h	ole, sinkhole saltwater swamp	Z Y		P Extremely low <9 m)	LP Level plain	GP Gently undulating	UP Undulating plain	RP Rolling plain	8 badlands	B Badlands	B Badiands	
Dietumber									plain		pioni		,		
Disturbance Fire scars:	_													0/	
_											• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	%	
Feral animal:	Fire					•••••		• • • • •	•••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •		%	
							- (S%5	
Other:E.r.o	Sion	29	3U K	ianks/	gva	ZING	3./.Can	ric	+10	OK				%.29	0
Health: Pristin	ie / Ex	celler	nt / Very	Good / Good	A KE	/erage	/ Degrade	ed /	Complet	telv Dea	raded (a	lmost wi	thout na	atives)	
•					ノ .		J		•	, ,	`				
Special signifi	cance	_													
Cultural:	-	• • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • •					• • • • • • • •	• • • • • • • •			
Recreational:			• • • • • • • • • •	•••••••••			• • • • • • • • • • • • • • • • • • • •	••••							
Conservation:	two	ve	ment.	corrid	lor.										
Commercial:						· • • • • • • •									
Other Notes:															
				· · · · · · · · · · · · · · · · · · ·					•						•
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*	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • •	••••	• • • • •		• • • • • • •	• • • • • • • •		•••••		

Width of community: (35m wide) 35-75m; 75-150m; 150-300m; >300; not linear
Width of total remnant: (35m wide); 35-75m; 75-150m; 150-300m; >300; not linear
Total community area: Does not extend beyond site; <1ha; (1-5ha;) 5-20ha; 20-50ha; >50ha
Total remnant area: Does not extend beyond site: <1ha : 1-5ha: 5-20ha : 20-50ha : >50ha

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent	20	(51/	10%. Bare group
Canopy	8	70%	esp. on banks.
Mid	3	40/	1
Ground	0.5	60 /	

All woody species present within 50m v 10m plot (plus dominant and threatened non-woody species)

All woody species present within 50m Species	Rel.	Form	r <mark>e</mark> N. C.	Ht	(m)				
	Dom.		E	T1	T2	T3	S1	S2	G
Callistemon salignus	D	T		8					
E tereticornis	O	١٦		10					
Mel. linearifolius	F	T		6.					
Trystaniopsis Iqurina	D.	T		8					
Backhousia my mifolia (s)	F	smlT					3		
E. moluccana	0	T	20				3		
Notelaea venosa (s)	R	sml.T					3		
Angophora subvelutina	R	Т	20						
1									
Parsonsia straminea (monkey)	R	\ \ \							
Maclura cochinchinensis (spur)	R	V		-					
The Charles Cochin Chinaensis Aspury									
Lomanara histrix	F	G							0.6
eridium exscilentum	F	Fern							05
Imperata cy lindrica	۴	4							0.5
Senecio madagascaviensis	0	Herb		_					0.2
J									
			,						
KEITH-NSW 4 - DRY	RAINF	OREST							
KEITH-NSW 4 - DRY CRA - FE 168 - RAIN	FORE	ST							

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	Vege	tation Monitoring	eet		Job l	Numbe	er: S6	0665				
Site Number	FL	O.7 Assess	or JB	+ CL				Data	. 01	, 0	.G/20	Λ S
		· Along inte						Dale		/	/20	UC
								· · · · · · · · · · · · · · · · · · ·	5	:h		• • •
				DA94; WG								•••
Latitude / Eas	sting:	0398 393 1	-ongitude	/ Northing	:	643	014 2	٠ ١	Waypo	oint #:	028	
Photo:2	108/											
Soil Colour	Soil S	econdary Texture	Soil Dri	mary Text	Liro	Oth	or Soil	Notes			7	
Whitish	3011 31	Clayey)	3011 F11	Clay	ure	Our	er Sui	NOLES	·			
Pale		Silty		Silt								
Yellow		Sandy		Loam								
Orange (Brown)		Gravely Stony		Sand Gravel								
Red		Ctoy										
(Dark)	·		:	Saline Mud								
Black Mottled				•								
			<u>. l</u>		• .							
Altitude:							Aspec	t: N; N!	E; s	E; S; S	W; W; N	1W
Landform:	Jentle	1 undulating	Rises.									
Table 24 CORVEG landform	`	\$		Table 25 CORV	/EG typ	es of erosior	al landform	patterns by	slope and rel	ief class cod	ies	
PLAIN		HILLS, MOUNTAINS, TABLELAND	Code	Slope class								
Not otherwise specified, flat go slopes, undulating terrain	entle A	Slope or hill not specified	F	Class	LE Level	Very	GE Gently	MO Moderately	ST Steep	VS Very	PR Precipitous	
Downs, open downs, rolling do ashy downs, pebbly downs	owns, *	Cliff (steep rocky faces), rocky ledgrocky outcrop, scarp, crack in rock		Danasta na		gently inclined	inclined	inclined	00.50	steep		
		crevices		Percentage Degrees (rounded to	0	1-3	3–10 3–6	7–18	32–56 19–29	56–100 30–45	100 >45	
Alluvial plain or flat, alluvium, i		Coastal rocky headland	N	nearest whole number)								
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)	n (inland) U	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	Q	Relief class			Erosional la	ındform pattı	em			
STREAMS		DUNE		M Very high	-	-	-	RM Rolling	SM Steep	VM Very	PM Precipitous	
Lakes, banks of lake, river, str water course, levees + perman		Fossil coastal dune, high dune	s	500 m)				mountains	mountains	steep mountains	ricapious	
Gully, drainage line, ravine gor outwash— + intermittently wet		Unspecified coastal dune, beach di recent coastal dune, low dune, coa		High 90- 300 m	-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		sandhill Inland dune, inland sandhill	т	(about 150 m)			THE	THIS		steep mis	inis	
sucarus, peus + intermittentry	llooded			L Low 30- 90 m (about 50 m)	-	-	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very	B Badlands	
	!	WATER		R Very low 9-	_	ØR ₹	UR	RR	SR	steep low hitls B	В	
		Freshwater lake, lagoon, spring, sta Freshwater swamp, marsh, soak,	eam X	30 m (about 15 m)	(Gently undulating	Undulating rises	Rolling rises	Steep rises	Badlands	Badiands	
		seepage area Gilgai, melon hole, sinkhole	Z	P Extremely low <9 m)	LP Level	GP Gently	UP Undulating	RP Rolling	B badlands	B Badjands	B Badlands	
		Saltwater, sea, saltwater swamp	Y	,	plain	undulating plain	plain	plain	Dadia ido	Eddicios	Dadianas	
<u>Disturbance</u>	- 1 -1											
Fire scars:	ola	2/3m					· • • • • • • • • • • • • • • • • • • •				%	
Feral animal:				• • • • • • • • • • • • • • • • • • • •							%	
Weeds:											%.!	0
Other:	aring	E of bound	dary f	or pom	erli	nes/	109	ging			%	
	<u>.</u>		·····	,								•
Health: Pristin	e / Exce	llent / Very Good / Go	od / Averag	ge / Degrade	ēd)/	Complet	ely Deg	raded (a	lmost wi	thout na	itives)	
Special signifi	cance											
Cultural:	<u>ourioo</u>			•								
		•••••••••			••••				• • • • • • • • •		• • • • • • • • • •	• •
Recreational:		ا در مرمور م	nat da		• • • • •	•••••		•••••		• • • • • • • •		•••
		je vemnant	. איני ואיק								• • • • • • • • • • • • • • • • • • • •	•••
Commercial:			····· <u>-</u> ····			• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •					
Other Notes:	Cún	struct pipelin	ne E	of ver	99	ant	b/r	Y X	eg l	ine		
		ono	yaqk	verline	10	0m	99	ρ	·····			
		**********	1				\cup	,				
* Solomum	sp. 2	- Photo 270	7									

Width of community:	<35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear
Width of total remnant	: <35m wide; 35-75m; 75-150m; 150-300m; >300; (not linear)
Total community area:	Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha
Total remnant area:	Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha

**

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes	
Emergent			No Bare ground	
Canopy	15	60	1	
Mid	2	10		
Ground	0.3	70		•

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form Ht (m) T2 E Dom. <u>T1</u> T3 <u>S1</u> G E. punctata 15 D E. siderophloia T \bigcirc 15 \bigcirc T E tereticornis (S) 15 T 15 C. Citriodora Protig purpurasciens 0 1-1 0-1 H F 0.5 Exocarpus cupressi formis cherry Sh Wild tomato Solanum sp 1. 0.5 1-1 R Bursaria Sh SOMOSO Solanum bungetium H renny Centella asiatica Α 0.1 1 (5) Lilly * * Romulea rosea 0.2 Н Dianella caerulea 1 yellow Oxalis corniculata H 0.10 G minor Briza Thistle H . Cirsium vulgare (purple) 0.5 Lantona comara Sh A Senecio madagas cariensis 0.2 KEITH-NSW21 - NORTHERN HINTERLAND SEMI-MESIC FOREST 134 - SOUTH COAST SHRUBBY GREY GUM

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

	Veg	eta	tion Monitoring	Data S	She	et		Job	Numbe	er: S6	0665		
Site Number:	FL Coru	. Oʻ ah	8 Assessor River ROS	r. JB Sing	+ C	L (KP2	5)			Date	. 31		<u>گ</u> /2008
			ong; (UTM) Da						4	Zone	ə: ⁹	56	
Latitude / Eas	stina:	0,	397.412. Lo	naituc	de /	 Northina	. (0426	42	7 1	Navno	oint #:	024
Photo:?	_) [-		
Trioto: Triinin													
Soil Colour	Soil	<u>Sec</u>	ondary Texture	Soil F		ary Text	ure	Oth	er Soil	Notes	S		
Whitish Pale			Clayey Silty			Clay							
Yellow			Sandy			Loam							
Orange			Gravely			Sand							
Red			Stony		. (Gravel							
Dark					Sal	line Mud							
Black Mottled													
	<i>l</i> .												
	54						. .		Aspec	t: n; ni	E; E ; S	E; S; S	W; W; NW
Landform:	River	 .	with mode	rate -	- s	teep k	<u>xar</u>	1KS	WIH	\sim c	aved	pas	ture 1
Table 24 CORVEG landform		des	Landform situation	Code	1	Table 25 CORV	EG typ	es of erosio	nal landform	patterns by s	slope and re	lief class co	des Suvía
PLAIN			HILLS, MOUNTAINS, TABLELANDS			Slope class							
Not otherwise specified, flat g- slopes, undulating terrain	entle	A	Slope or hill not specified	F		Class	LE Levei	VG Very gently	GE Gently inclined	MO Moderately inclined	ST Steep	VS Very steep	PR Precipitous
Downs, open downs, rolling de ashy downs, pebbly downs	owns,	4	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock, crevices	L		Percentage	<1	inclined 1–3	3–10	10–32	32–56	56-100	10D
			Crevices			Degrees (rounded to nearest whole	0	1–2	3–6	7–18	19–29	30-45	>45
Alluvial plain or flat, alluvium, Inland clay pan, salt flat or par		B U	Coastal rocky headland Top, crest of mountain or ridge	N K		number)							<u> </u>
Tidal flat, salt flat (coastal)		V	Jump-up, mesa, tableland, plateau	Q		Relief class			Erosional la	ındform patte			
STREAMS Lakes, banks of lake, river, str	ream,	c	DUNE Fossil coastal dune, high dune	s		M Very high >300 m (about 500 m)	-	-	-	RM Rolling mountains	SM Steep mountains	VM Very steep	PM Precipitous
water course, levees + perma Gully, drainage line, ravine go			Unspecified coastal dune, beach dune	e, R		Н	-	-	UH	RH	SH	mountains VH	PH
outwash— + intermittently wel	t		recent coastal dune, low dune, coasta sandhill			High 90- 300 m (about 150 m)			Undulating hills	Rolling hills	Steep hills	Very steep hills	Precipitous hills
Bed of channel—distributaries streams, beds + intermittently		E	Inland dune, inland sandhill	Т		L Low 30	-	-	UL	RL	SL	VL	В
_						90 m (about 50 m)			low hills	Rolling low hills	Steep low hills	Very steep low hills	Badlands
	÷		WATER Freshwater lake, lagoon, spring, strea			R Very low 9- 30 m (about	-	GR Gently	UR Undulating	RR Rolling	SR Steep	B Badlands	B Badiands
			Freshwater swamp, marsh, soak, seepage area	W W		15 m)	LP	undulating rises rises rises					В
			Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y		low <9 m)	Level plain	Gently undulating	Undulating plain	Rolling plain	badiands	Badlands	Badlands
<u>Disturbance</u>								plain	l	· <u>-</u>	<u> </u>	<u>!</u>	
Fire scars:													%
Feral animal:	FOX	(5	scat ??)										%
Weeds:													
		 SCS	s contle tro										%
Otrici					• • • • • •			• • • • • • • • • • • • • • • • • • • •					/0
Health: Pristin	ne / Exc	celler	nt / Very Good / Goo	d / Æve	erage	Y Degrade	ed /	Comple	telv Dea	raded (a	lmost w	ithout na	atives)
) -5			,	, ,			,
Special signifi		2											
Cultural:	same :	• • • • •			• • • • •						• • • • • • • • • • • • • • • • • • • •		
Recreational:						:					• • • • • • •		
Conservation:	Rip	ario	an corridor	hab	orta	1 Insee	d C	riper	191				
Commercial:.		 .	•••••										
Other Notes:	IDD.	ve	commended										
* ficu	ring.	.w	ater										
+ plate	apus	₽	oder oossible										

Width of community: <35m wide; 35-75m; 75-150m Width of total remnant: <35m wide; 35-75m; 75-150n	; 150-300m ; >300 ; not linear
Width of total remnant: <35m wide; (35-75m); 75-150n	n ; 150-300m ; >300 ; not linear
Total community area: Does not extend beyond site; <1h;	a ; 1-5ha; 5-20ha ; 20-50ha ; >50ha
Total remnant area: Does not extend beyond site; <1ha	

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			Major veg type of steep banks is exclic wordering due
Canopy	12	80%	is exchic wouldering due.
Mid	4	30%	
Ground	0.5	10-50/	30-40% Bare Ground

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) **Species** Rel. Form (m) Ht T2 Dom. Ε T1 T3 <u>S1</u> S2 G (mater Tristaniopsis laurina A Т 10 Syzygiani Qustrale Peach 4 T Prunus persica Ture Melia azedarach cedar toballo F 2.5 Solon um mauritianum SmI T bush R X sonecio madagasarensisi H F S ** Ageratina riparia E. tereticornis F T 15 Wandering A Commelina cyanea H 0.2 R Callistemon salignus (s) T F Backhousia myrtifolia Liquistrium simensis leaf **X*** 0 Sh 1.5 cryptocarya glaucescens (S) Laurel R 6 T Casuarina Cunninghamina F 5 floribunda Ã 10 hustrix H 0:5 CRA-FE 168 - RAINFOREST

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

Site Number:	FL	09	Assessoi	r:	JB+	CĻ		•		Date		0 /0	8/200	38			
			f Kokvah														
GPS Projection	on: L	_at-L	ong; (UTM) Da	atum	1: (GD/	A94) WG	S84;	AGD8	4	Zone	e: .5	6					
Latitude / Eas	sting:	03	97554 Lo	ngi	tude 🗀	Northing	:	6421	₊ 708	١ ١	Vayp o	oint #:	009				
Photo:	266	رص	/2661		<i></i>								·				
	F -			I - <u>-</u>													
Soil Colour	Soil	Sec	condary Texture	So		ary Text	ure		Other Soil Notes								
Whitish Pale			Clayey >			Clay Silt		W	et/m	ioist.							
Yellow			Sandy /		L	oam.											
Orange			Gravely			Sand)											
(Brown) Red			Stony ·		G	Bravel											
Dark			,		Sali	ine Mud											
Black																	
Mottled																	
Altitude:	ol		m Slope: .	Mo	oderati	e /sleer)		Aspec	t· N· NI	F. F. S	F S S	:\/\· \/\· N	۱۸۸			
Landform:	Gul	14	with draina	901	/cvee	x line	·	60	Hom	dry) ,	L, O, C	, , , , , , , , , , , , , , , , , , ,	••			
Table 24 CORVEG landform				٠,٠٠,	· · · · · · · · · · · · · · · · · · ·	Table 25 COR						lief class co	des	•••			
Landform situation PLAIN		Code	Landform situation	Co	de	Slope class											
Not otherwise specified, flat ge	entle	A	HILLS, MOUNTAINS, TABLELANDS Slope or hill not specified	F		Class	LE Level	VG Very	GE Gently	MO Moderately	ST Steep	VS Verv	PR Precipitous				
Slopes, undulating terrain Downs, open downs, rolling do	owns,	*	Cliff (steep rocky faces), rocky ledge,	L			Love	gently inclined	inclined	inclined		steep	Frecipilous				
ashy downs, pebbly downs			rocky outcrop, scarp, crack in rock, crevices			Percentage Degrees	<1 0	1-3	3–10 3–6	10-32 7-18 (/32–56 19–29	56-100 30-45	100 >45				
Alluvial plain or flat, alluvium, f	flood alain	В	Coastal rocky headland	N		(rounded to nearest whole number)											
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		U V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K		Relief class	I.		Erosional la	andform patte	em		l				
STREAMS			DUNE			M Very high		-	 -	RM	SM	VM	PM				
Lakes, banks of lake, river, str water course, levees + permai		C	Fossil coastal dune, high dune	s		>300 m (about 500 m)				Rolling	Steep mountains	Very steep mountains	Precipitous				
Gully, drainage line, ravine gor outwash— + intermittently wet	rge,		Unspecified coastal dune, beach dune		_	H High 90-	-	-	UH Undulating	RH Rolling	SH Steep hills	VH Very	PH Precipitous				
Bed of channel—distributaries		<u></u>	recent coastal dune, low dune, coastal sandhill Inland dune, inland sandhill	' T	-	300 m (about 150 m)			hills	hilis		steep hills	hilis				
streams, beds + intermittently	flooded					L Low 30- 90 m (about	-	-	UL Undulating	RL Rolling low	SL Steep low	VL Very	B Badlands				
			WATER			50 m)		0.0	low hills	hills	hills	steep low hills					
			Freshwater lake, lagoon, spring, stream			R Very low 9- 30 m (about 15 m)	-	GR Gently undulating	UR Undulating rises	RR Rolling rises	SR Steep rises	B Badiands	B Badlands				
		,	Freshwater swamp, marsh, soak, seepage area Gilgai, melon hole, sinkhole	W 7		P Extremely	LP	rises GP	UP	RP	В	В	В				
			Saltwater, sea, saltwater swamp	Y		low <9 m)	Level plain	Gently undulating plain	Undulating plain	Rolling plain	badiands	Badlands	Badlands				
Disturbance			•			L		ј раш									
													%				
Feral animal:																	
	<i>ame</i>	ou											7 1				
	ina	1 C	attle track														
Outer	J	•/• • • •			P		• • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •		•••••		د			
Health: Pristin	. / Ev	ممالم	nt / Very Good / Goo	a / /	Nucroan	1 Dograda	1	Camplai	alu Daa			د د د د داد:					
<u>ricaiti</u> . riistii	16 / LA	Cellel	int / Very Good / Goo	u / /	verage	Degrade		Comple	ely Deg	raueu (a	imost w	itriout ria	auves)				
Special signifi	cance	<u> </u>															
Cultural:	 • • • • • • • •																
Recreational:	_																
Conservation:	VCC	a c	orridor														
Commercial:	`	-												•			
Other Notes:														••			
Other notes:			nt control											•			
•••••		,,,,,	11 (0)11101	• • • • •	• • • • • • • • •		• • • •	• • • • • • • •		• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		• •			
			• • • • • • • • • • • • • • • • • • • •							• • • • • • • • •				••			

Job Number: S60665

Vegetation Monitoring Data Sheet

Width of community: <35m wide; (35-75m); 75-150m; 150-300m; >300; not linear Width of total remnant: <35m wide; (35-75m); 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha; 1-5ha; (5-20ha); 20-50ha; >50ha Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; (>50ha)

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			mostly cleared coultle posture
Canopy	16	50%	NE'S OF Gully.
Mid	2.5	75%	_
Ground	0.6	10%-100%	7

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form (m) T3 Dom. G T E. umbra (5) D 16 T E siderophoia 16 Alphotonia excelsa T 14. Melaleuca styphelioides T 10. Solanum mauritiam. F T R Sh Hibiscus neterophyllus Notebea venosa *(s)* clematis aristata \vee Senha 0 acclinis 2.5 LOCK Maclura cochinchinensis spur Sh ** Lantana camera D 2 (Stinging Nettle) Harb 0.8 **(s)** Ageratina Herb 0.6 Plantago lanceolata **(s)** R 0.5 Herb. DKEITH-NSW 69 - HUNTER MACLEAU DRY SCLEROPHYLL FOREST A CRA- FE 33 - DRY FOOTHILLS SPOTTED GUM

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling; Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	veg	jeta	tion Wonitoring	Jata :	Snee	t		Job	Numbe	er: S6	0665				
Site Number:	FL	10	Assesso	r:		JB+ C				Date	. 3	1,0	DS 120	വഴ	
Location:	Kai	ruo	in River	(KF	29	·2)						···/···	20	00	
							 884·	∆ദവ8	<u>.</u>	70n	. 5	6		•••	
			98 233 Lo												
Photo:	Julig.	••••		n igitu	ide / i	vorti iirīg					vvayp	JII IL #7.			
111000									· · · · · · · · · · · · · · · · · · ·					•••	
Soil Colour	Soil	Sec	ondary Texture	Soil		ary Text	ure			Notes					
Whitish Pale			Clayey Silty		_	Clay) Silt		clay on bonks silty/sandy bonks a river peobles							
Yellow			Sandy	ı	_	oam		N	y ve	v bek	obles				
Orange Brown			Gravely Stony	ı		Sand ravel				F'	, •				
Red			Storry		G	avei									
Dark Black					Saliı	ne Mud									
Mottled															
	20·											a			
Altitude:	·····		m Slope: .					. ,	Aspec	t: N; Ni	E; E; S	E; S; S	W; W; 1	1 W	
			v moderate	- 40	stee	p ban	ICS.					• • • • • • • • • • • • • • • • • • •			
Table 24 CORVEG landform Landform situation	situation c	Code	Landform situation	Code]	Table 25 CORV	EG typ	es of erosion	nal landform	patterns by s	slope and re	lief class cod	ies ·		
PLAIN Not otherwise specified, flat gr	2240	Α	HILLS, MOUNTAINS, TABLELANDS	F		Class	LE	VG	JGE \	МО	ST	Vs	PR		
slopes, undulating terrain Downs, open downs, rolling do		*	Slope or hill not specified Cliff (steep rocky faces), rocky ledge,	L L	-		Level	Very gently inclined	Gently inclined	Moderately inclined	Steep	∀ery steep	Precipitous		
ashy downs, pebbly downs			rocky outcrop, scarp, crack in rock, crevices			Percentage Degrees	<1 0	1-3	3-19 3-6	10–32 7–18	32-56 19-29	56–100 30–45	100 >45		
Alluvial plain or flat, alluvium, f	flood plain	Б	Coastal rocky headland	- N		(rounded to nearest whole number)									
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)	n (inland)	U V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q		Relief class			Erosional la	andform patte	em		· · · · · · · · · · · · · · · · · · ·		
STREAMS			DUNE			M Very high >300 m (about	-	-	-	RM Rolling	SM Steep	VM Very	PM Precipitous		
Lakes, banks of lake, river, str water course, levees + perman			Fossil coastal dune, high dune	s		500 m)				mountains	mountains	steep mountains			
Gulty, drainage line, ravine gor outwash— + intermittently wet		D	Unspecified coastal dune, beach dune recent coastal dune, low dune, coasta		-	H High 90- 300 m	-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hiils		
Bed of channel—distributaries streams, beds + intermittently		E	sandhill Inland dune, inland sandhill	Т	-	(about 150 m)									
						L Low 30– 90 m (about 50 m)	-	_	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very steep low	B Badiands		
			WATER			R Very low 9– 30 m (about	_	GR Gentty	UR Undulating	RR Rolling	SR · Steep	hiils B	B Badlands		
			Freshwater lake, lagoon, spring, streat Freshwater swamp, marsh, soak, seepage area	m (X)	-	15 m)		undulating rises	rises	rises	rises	Badlands			
	,		Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y	-	P Extremely low <9 m)	LP Level plain	GP Gentty undulating	UP Undulating plain	RP Rolling plain	B badiands	B Badlands	B Badlands		
Disturbance					l			plain C		<u>r</u>					
Fire scars:													%		
Feral animal:											• • • • • • • • • • • • • • • • • • • •		%		
Weeds:	·····					· · · · · · · · · · · · · · · · · · ·	••••						%. 2		
	+10	tra	cks/flood a				••••			• • • • • • • • •		•••••	% [⊆]	_	
Othor:							••••				•••••		/0>	_	
Health: Pristin	ie / Ex	celler	nt / Very Good / Goo	d) (Ave	erage	/ Degrade	d /	Complet	ely Dea	raded (al	lmost wi	ithout na	itives)		
						0			- 5	,					
Special signifi	_														
Cultural:				•••••			• • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••	
Recreational:						• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •		• • • • • • •		•••	
Conservation:			יע		/	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	•••••					
Commercial:		····				• • • • • • • • • • • • • • • • • • • •		• • • • • • • •						• • •	
Other Notes:	.HD	…با	vecommen	200	····				• • • • • • • •			• • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
	 .		•••••		• • • • • •			• • • • • • • • •	• • • • • • • •				•	• •	
						• • • • • • • • • • • • •								•••	

. . . .

Width of community: <35m wide; (35-75m) 75-150m; 150-300m; >300; not linear
Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; (not linear)
Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha
Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha)

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent		1	Large pepples/rocks along
Canopy	14	50/(N)/80/(D	creek bank
Mid	8	30/	Bare ground 10%
Ground		0-801	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) **Species** Rel. Form (m) T3 Dom. <u>T1</u> <u>S1</u> S2 G Allocasuarina cunninghamana Prunus persica T Syzygium australe 14 * Agerating viparia 0.8 Sh. Acacia floribunda 1.5 Sh Pittosporun undulation (\$) Sh Native plum olive australis 0 Sh Duboisia myoporoides (s) Melastoma malabathricum R Sh Bursavia Sh Spinosa Tristaniopsis Lophos/murt) \bigcirc T 10 laurina Lomandra HISTVIX A Herb E. toreticomis 6 T 14 * Liqustrum sienense Sh 1.5 Lantana camera Sh 0.2 Herb KEITH-NSW4-DRY RAINFOREST CRA - FE 168 - RAINFOREST

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling; Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	Vege	tation Monitoring		Job Number: S60665									
Site Number	£L.	Assess	or:	IB+ CI				Data	. 21	, (18 120	000	
			3000	(KP38		• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Dale		/₩	·.9/20	100	
				GDA94;)WGS		۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰			 =	56	• • • • • • • • • •		
		396 357 L	Jaluiii.	GDA94;)VVG	504; . <i>l</i>	AGD8	4 201	20116 2 \	۶ . ۸/	 .:	 ロク/		
Dhata. 269	sung' ≈14 (1	facing W)	ongitud 17	e/Northing		~`~ <i>)</i>							
Prioto:	ρ.πι.τ	aurig. w	۲.۰۰۰ ۲.۲	3.14.0100		j. = ./.			• • • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •		
Soil Colour	Soil S	econdary Texture	Soil F	Primary Text	ure	Other Soil Notes							
Whitish Pale)		Clayey Silty		Clay Silt									
Yellow		(Sandy)									ļ		
Orange		Gravely		Sand									
(Brown) '		Stony		Gravel									
Dark				Saline Mud									
Black ` Mottled													
· · · · · · · · · · · · · · · · · · ·				-								-	
Altitude:													
Landform:	Hill S	lope (mode	rate)										
Table 24 CORVEG landform Landform situation	situation code		Code	Table 25 CORV	EG typ	es of erosior	nal landform	patterns by s	lope and rel	ief class co	des		
PLAIN		HILLS, MOUNTAINS, TABLELAND	os _	Slope class	115	1.00	l or			1.45			
Not otherwise specified, flat go slopes, undulating terrain		Slope or hill not specified	F	Class	LE Level	VG Very gently	GE Gently inclined	MO Moderately inclined	ST Steep	VS Very steep	PR Precipitous		
Downs, open downs, rolling do ashy downs, pebbly downs	owns,	Cliff (steep rocky faces), rocky ledg rocky outcrop, scarp, crack in rock, crevices		Percentage Degrees	<1	inclined 1-3 1-2	3-10	10-32	32-56	56-100	100		
				(rounded to nearest whole	١	1-2	36	7_18	19–29	30-45	>45		
Alluvial plain or flat, alluvium, 1 Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		Coastal rocky headiand Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q	number) Relief class		<u> </u>	Frosional la	ndform patte	m				
STREAMS		DUNE		M Very high	-	_	-	RM Patte	SM	VM	PM		
Lakes, banks of lake, river, str water course, levees + permai		Fossil coastal dune, high dune	s	>300 m (about 500 m)				Rolling mountains	Steep mountains	∀ery steep mountains	Precipitous		
Gully, drainage line, ravine gor outwash + intermittently wet		Unspecified coastal dune, beach di recent coastal dune, low dune, coa		H High 90-	-	-	UH Undulating	RH Rolling	SH Steep hills	VH Very	PH Precipitous		
Bed of channel—distributaries	of inland E	sandhill Inland dune, inland sandhill	T	300 m (about 150 m)			hills	hills		steep hills	hills		
streams, beds + intermittently	Tlooded			L Low 30 90 m (about 50 m)	-	-	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very	B Badlands		
		WATER		R Very low 9-	-	GR	UR	RR	SR	steep low hills B	В		
		Freshwater lake, lagoon, spring, str Freshwater swamp, marsh, soak,	ream X	30 m (about 15 m)		Gently undulating rises	Undulating rises	Rolling rises	Steep rises	Badlands	Badiands		
		seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z	P Extremely low <9 m)	LP Level	GP Gentty	UP Undulating	RP Rolling	B badiands	B Badlands	B Badiands		
		Outwater, Sea, Salewater Swamp			plain	undulating plain	plain	plain					
<u>Disturbance</u> Fire scars:	up +	0 4m									۰, ۶	50%	
		.YT'.Y.		••••••	••••	• • • • • • • •		••••••					
Feral animal:	• • • • • • • • • • • • • • • • • • • •	•••••		• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • • • • •	••••••				%		
Weeds:		a / past cl	earin	a /c/06/	, C		• • • • • • • • • • • • • • • • • • • •				%	/	
Otner:	33	9 / past a		1.7.6.03		······	• • • • • • • • • • • • • • • • • • • •		• • • • • • •		%.5)/-	
Health: Pristin	e / Evce	ellent / Very Good / Go	and Ava	Dograda	a / /	Complet	ahi Dam	ام/ امما		415	.4:		
		silent / Very Good / Go	Jod Aver	rage) Degrade					most wi	tnout na	itives)		
Special signifi	<u>cance</u>			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>	٥٠٤٤	ming	•					
Cultural:		•••••											
Recreational:		•••••										•••	
Conservation:	Larg	ge avea wi	th sor	me 1019		Hee	52 -0	₩.,					
Commercial:		J		\	۰۰۰۰	,	,				<i>;</i>		
Other Notes:	small	lertres to E (u pipe to E i orchid - ph	shill,) large	. t	ies (DBH	(بهزاج) im	road	resen	-(\	
option to	put	pipe to E i	m Onla	ller tree	·	()no	mbl	y pre	vious	ly c	leare	d.?)	
gr.	ound	orchid - ph	268	85-2691								🧸	
4													

Width of community: <	35m wide ; 35-75m ; 75	-150m ; 150)-300m ; >300	; (not linear)
Width of total remnant:	<35m wide; 35-75m; 7	75-150m ; 1:	50-300m ; >30	00 ; (not linear)
Total community area:	<35m wide; 35-75m; 7 Does not extend beyond site Does not extend beyond site:	e; <1ha ; 1	-5ha; 5 - 20ha	; 20-50ha ; >50ha
Total remnant area: 🏻 🗈	loes not extend beyond site:	<1ha : 1-5h	a: 5-20ha : 1	20-50ha · >50ha

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes						
Emergent	1		5-10/ Bare ground						
Canopy	14	30	1						
Mid	3	50	·						
Ground	0.5	50.							

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species)

Rel.	Form		Ht	(m)				
Dom.	:	Е	T1	T2	Т3	S1	S2	G
A	T		14					
D	T		14					
0	T		14					
0	T		•		_5			
0	T				5			
0	Sh.					2		
R	T					2		
F	T					2		
A	Sh					2.5		
F	Sh					2		
0	Sh					1		
0	Sh					1		
0	. V							
0	Н							0.2
0	Herb]
F	G							5 Ò
F	9.							7
F	Herb							
0	isho							1
F	Herb							0.7
0	Sh					2		(
MACL	EAY D	Ry Sc	LEROCA	YLL F	OREST			
IT HILL	s Spo	TTED	Gum					
	-							
	Dom. A D O O O O R F A F O O O O F F O F O MACL	Rel. Form Dom. Form Dom. T T T T T T T T T T T T T T T T T T T	Rel. Form Dom. E A T D T O T O T O T O Sh R T F Sh O Sh O Sh O Sh O H O Hevb F G F Hevb O Sh O Sh MACLEAY DRY Sc	Rel. Form E T1 A T 14 D T 14 O T 14 O T 14 O T 7 O Sh 7 F Sh 7 O Sh 7 O Sh 7 F G F Herb 7 C Sh 7 F Herb 7 O Sh 7 F Harb 7 O Sh	Rel. Dom. Form E	Rel. Form E T1 T2 T3 A T 14 D T 14 O T 14 O T 5 O T 5 O Sh. R T F T A Sh D D D D D D D D D D D D D D D D D D	Rel. Form E	Dom. E T1 T2 T3 S1 S2

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot
Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum
Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	Veç	geta	tion Monitoring l	Data S	Shee	et ·		Job l	Numbe	er: S 6	0665		
Site Number	E	L_1	2 Assessor	٠.	JB	+ CL				Data	. 02	2 , 0	9/200
			mp Road									·/ . .	/200
												 ک	
			3.9.60.75 Lo	aturri.	40 V	Northing	504, . (AGD0 دا باه	4 2111	ZUNE			057
	74		LC	•		•			S.1.T	······		oint #:	
Soil Colour	Soil	Sec	ondary Texture	Soil I	Prim	ary Text	ure	Oth	er Soil	Notes	<u> </u>		
Whitish			Clayey	Clay					+1	rge	Sand	stone	rock
Pale Yellow			Silty Sandy		. 1	Silt Loam		(m	etám	orphi c	?)		rock
Orange			Gravely			Sand							
Brown			Stony		Č	Bravel							
Red Dark			Salina Mu										
Black				Saline Mud									
Mottled				-						• • • • • • • • • • • • • • • • • • • •			
Altitude:													
Table 24 CORVEG landform	situation (Code	Landform situation	Code	1	Table 25 CORV	/EG typ	es of erosion	nal landform	patterns by s	lope and re	lief class co	des
PLAIN			HILLS, MOUNTAINS, TABLELANDS			Slope class				_			
Not otherwise specified, flat go slopes, undulating terrain	entle	A	Slope or hill not specified			Class	LE Level	VG Very	GE Gently	MO Moderately	Steep	VS Very	PR Precipitous
Downs, open downs, rolling do ashy downs, pebbly downs	owns,	•	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	L		Percentage	<1	gently inclined 1–3	inclined 3-10	inclined 10–32	32–56	steep 56–100	100
			crevices			Degrees (rounded to nearest whole	0	1–2	3–6	7–18	19–29	30-45	>45
Alluvial plain or flat, alluvium, f Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		U V	Coastal rocky headland Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K O		number) Relief class		<u> </u>	Frasional I	andform patte	<u> </u>		
STREAMS			DUNE			M Very high	1-	-	-	RM	SM	1 ∨ M	1 PM
Lakes, banks of lake, river, str water course, levees + perman		С	Fossil coastal dune, high dune	s		>300 m (about 500 m)			UH	Rolling mountains	Steep mountains SH	Very steep mountains	Precipitous
Gully, drainage line, ravine gor outwash— + intermittently wet		D	Unspecified coastal dune, beach dune recent coastal dune, low dune, coastal			High 90- 300 m	-	_	Undulating hills	Rolling hills	Steep hills	VH Very steep hills	Precipitous hills
Bed of channel—distributaries streams, beds + intermittently		E	sandhiil Inland dune, inland sandhill	Т		(about 150 m)	<u> </u>						
						L Low 30- 90 m (about 50 m)		-	Undulating low hills	Rolling low hills	Steep low hills	VL Very steep low	Badiands
			WATER			R Very low 9- 30 m (about	-	GR	UR Undulating	RR	SR	hiils B	В
			Freshwater lake, lagoon, spring, streat Freshwater swamp, marsh, soak,	m X W		15 m)		Gently undulating rises	rises	Rolling rises	Steep rises	Badlands	Badiands
			seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y		P Extremely low <9 m)	LP Level plain	GP Gently undulating plain	UP Undulating plain	RP Rolling plain	B badlands	B Badlands	B Bediands
Disturbance Fire scars:	(J)	1 ∪.	5000					į piaui		<u> </u>	L		
	М.				• • • • •		••••			• • • • • • • •			
Feral animal:		• • • • • •		• • • • • • •									%
Weeds:													≲.%.5
Other:!	910	g((some)	• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	· · · · ·		•••••				
Health: Pristin	ie / Ex	celle	nt / Very Good (Goo	d)Ave	erage	/ Degrade	ed /	Complet	ely Deg	raded (al	lmost w	ithout na	atives)
Special signifi	<u>canc</u>	<u>e</u>	-	•									
Cultural:			•••••										
Recreational:													
Conservation:	Re	Mr	nant veg.										
Commercial:							•••••				· · · · · · · · · ·		
Other Notes:	.0	nst	Yuct pipe SE (evosio	in	<u>v</u>	oad	<u>(O</u>	rrido	ر٪	1. F.	nco	ess	9ry
extend u	<i>y</i> phi	1) <	SE (evosio	?^	.C.O.	ntrol	<u>)</u>						
		• • • • • •			• • • • •		• • • • •						

Width of community: <35m wide ; 35-75m ; 75-150m	; 150-300m ; >300 ; not linear
Width of total remnant: <35m wide; 35-75m; 75-150n Total community area: Does not extend beyond site; <1h	n ; 150-300m ; >300 ; not linear
Total community area: Does not extend beyond site; <1h.	a ; 1-5ha; 5-20ha ; 20-50ha ; >50ha
Total remnant area: Does not extend beyond site; <1ha	: 1-5ha: 5-20ha : 20-50ha : >50ha

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			5:/ Bare ground mostly leaf litter
Canopy	16	407.	mostly lear litter
Mid	8	36/.	
Ground		30%	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form (m) E T3 S1 Dom. G C. attiodora 16 umbra T 16 D E. propingua T 16 E. microcoris 16 Compound Leafshrub Indeterminate Sh 2 R SMI T Acacia irrorata Holly leaf Podolobium ilicifolium (S) priority Sh Allocasuavina torulosa: Α SmI T Davicsia ulicifolia sub. stenophylla R 0.8 Sh Jacksonia scopario Smi T Pultenara villosa Sh 0.3 Sh Acacia ulafolia G Themeda triandra Lomandra longifolia G 1.0 Dianella 10 H 0.8 G Imperata Windrica Senecia madagascarionsis 1 - HUNTER MACLEAY SCLEROPHYLL FOREST SPOTTED GUM FOOTHILLS - DRY

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

	Veg	geta	tion Monitoring I	t	Job Number: S60665									
Site Number:	Ę	L (3 Assessor		JB+(L				Date	02	210	<i>9</i> /20	008
Location:	Blac	K	camp Road (c	Javic	veo	Rom	a	rial	map)	(KP4	1)		
						\94; W G								
			395.185 Lo											
	sung. 2 7 49		.αα Lo	mgiii	ue / i	vortriirig		<u> </u>	···	\	waypo)II IL #.	\mathcal{O}_{ω}	•••
Photo:	".T.L	• • • • • •		• • • • • •	• • • • • • • • • • • • • • • • • • • •			• • • • • • • •		,			• • • • • • • • •	
Soil Colour	Soil	Sec	ondary Texture	Soil	Prima	ary Text	ure	Oth	er Soil	Notes	,			
Whitish			Clayey			Clay								
Pale			Silty			Silt								
Yellow Orange			Sandy Gravely	Loam										
Brown		2	Stony	_	ravel									
Red														
Dark)			Saline Mud											
Black Mottled														
Altitude:	130		m Slope: .						Aspec	t: n; ne	E; E; S	E; S; S	W; W; I	NW
Landform:	FOOT	hill	of sleep	SIO	pe-									
Table 24 CORVEG landform	situation c	odes	Landform situation	Code		Table 25 CORV	/EG typ	es of erosio	nal landform	patterns by s	lope and rel	ief class co	ies	ı
PLAIN	*	Code	HILLS, MOUNTAINS, TABLELANDS	Code	-	Slope class								
Not otherwise specified, flat g	entle	A	Slope or hill not specified	F	$\hat{\mathfrak{h}}$	Class	LE Level	VG Very	GE Gently	MO Moderately	ST Steep	VS Very	PR Precipitous	
siopes, undulating terrain Downs, open downs, rolling dr ashy downs, pebbly downs	owns,	•	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	1				gently inclined	inclined	inclined		steep	400	
,			crevices			Percentage Degrees (rounded to	0	1-3	3–10	7–18	32–56 19–29	56-100 30-45	100 >45	
Alluvial plain or flat, alluvium,	flood plain	В	Coastal rocky headland	N		nearest whole number)								
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		U V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q		Relief class			Erosional la	indform patte	em			
STREAMS			DUNE			M Very high	-	-	-	RM	SM	VM Von	PM Descipitants	
Lakes, banks of lake, river, str water course, levees + perma		С	Fossil coastal dune, high dune	s		>300 m (about 500 m)				Rolling mountains	Steep mountains	Very steep mountains	Precipitous	
Gully, drainage line, ravine go outwash— + intermittently wet	rge,	D	Unspecified coastal dune, beach dune recent coastal dune, low dune, coastal		-	H High 90–	-	-	UH Undulating	RH ' Rolling	SH Steep hills	∨H Very	PH Precipitous	
Bed of channel—distributaries		E	sandhill Inland dune, inland sandhill	Т	4	300 m (about 150 m)			hills	hills		steep hills	hills	
streams, beds + intermittently	flooded					L Low 30- 90 m (about	-	-	UL Undulating	Rolling low	SL Steep low	VL ∀ery	B Badlands	İ
		<u> </u>	WATER	+	\dashv	50 m)			low nills	nilis	hills	steep low hills		
			Freshwater lake, lagoon, spring, stream	n X	_	R Very low 9– 30 m (about 15 m)	-	GR Gently / undulating	UR Undulating rises	RR Rolling rises	SR Steep rises	B Badlands	B Badlands	
			Freshwater swamp, marsh, soak, seepage area	W		P Extremely	LP	rises GP	UP	RP	В	В	В	
			Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y	\exists	low <9 m)	Level plain	Gently undulating	Undulating plain	Rolling plain	badlands	Badlands	Badiands	
Disturbance						<u> </u>	1	plain	<u> </u>		L		l	ı
Fire scars:													0/2	
Feral animal:				•••••			• • • • •		• • • • • • • • • • • • • • • • • • • •				%	•••
	, · · · · ·	• • • • • •							• • • • • • •					
Weeds:						• • • • • • • • • • • • • • • • • • • •	• • • • •				• • • • • • • • • • • • • • • • • • • •		%5	_
Other:Son	1£	109	9109				• • • • •			· · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		%	
11 10							_							
Health: Pristin	ie / Ex	celle	nt / Very Good / Goo	d ((A)	verage	Degrade	yd Y	Comple	tely Deg	raded (a	lmost w	ithout na	atives)	
Special signifi	canc	е												
Cultural:		_												
Recreational:	~	• • • • •					••••							•••
	\mathcal{O}_{ℓ}	 ∕1.√.⊅	vendotio-			$(v_{\alpha}; \alpha)^{\alpha}$	 صدرات	4 / \	000	لمرم مر	 م ص	· · · · · · · · · · · · · · · · · · ·		• • • •
) Y	vegetation	19	ואל	voirg	JV E	?!/	IN CAN	191 64 917	رُدُ	'		• • • •
Commercial:.				• • • • • •										
Other Notes:	Kee	ρ	pipe to vo	ad		rri dor				••••				
				· • • • • • •										
							·							

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Width of community:	<35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear
Width of total remnant	<35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear <35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear
Total community area:	Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha
Total remnant area:	Does not extend beyond site: <1ha : 1-5ha: 5-20ha : 20-50ha : >50ha

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes	
Emergent			161 bare ground - pepples/roots	
Canopy	20	60	- A peppies/100CS	
Mid	3	70	· · · · · · · · · · · · · · · · · · ·	
Ground	0.2	20	_	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form Ht (m) Ε T1 T2 T3 Dom. G T 18 E.molucana T D propingua 20 T 20 MICVOCOVYS T E. territirovnis 20 R T Apananthe philippinensis R Backhousia myrtifolia T 6 \checkmark 0 Cissus antarctica grape Grape) Cissus opaca Geitonoplesium cymosiim (lilly) Melostoma melabathricum (Blue Hourge) R Sh Alphotonia excuisa Sh. Acacia irrorata Sh Hibiscus sp. Sh Sh Ozothamnus diosmifolius Lomandra longifolia Goodenia ovala 1-1 Zieria smithii 15) Sh XX Lantana camera А Sh (Forest stormort) H **σ** · / Stellaria flaccida cobblers Bidens pilosa Н 0 0.3 pegs Sondgaper Fig FICIS covonata Diaspyros australis 0 H Senecio madagasca vensis 0.2 NORTHERN HINTERLAND SEMI-MESIC FOREST * KETH - NSW 21 COAST

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

	Veç	geta	tion Monitoring [Data	She	et		Job l	Numbe	er: S6	0665			
Site Number:	F.L	- 1 <u>1</u>	Assessor MUDDLE —	 	JB+	a		· · · · · · · · · · · · · · · · · · ·		Date	. 01		9. 1200 Pasture)8 /a
Location: .K.	P	495	D MUDDLE -	A.	Stv			0 (avea	cor	SHA	· (N. 4.5	••
GPS Projection	on: I	Lat-L	ong; UTM Da	tum	: (GD	A94;)WG	S84;	AGD8	4	Zone	e:÷) (O		
			239 <i>73</i> 55 Lo	ngit	ude /	Northing	:	640	195	ا	Naypo	oint#:	.03.4	
Photo:2.	109													
Soil Colour	Soil	Sac	condary Texture	Soi	l Drim	ary Text	uro	Oth	or Soil	Notes		* -		
Whitish	COII	.000	(Clayey)	301	1 1 11111	Clay	uie	Our	GI 3011	1140163	<u> </u>		<u> </u>	
Pale			Silty		_	Silt				,				
Yellow Orange			Sandy Gravely		_	Loam Sand								
Brown			Stony			Gravel								
Red														
Dark) Black					Sal	ine Mud								
Mottled														
A14:4			01									-		
Altitude:						•••••	• • • • •	. ,	Aspec	t: N; NE	Ξ; Ε; S	E; S; S	W(: W:) N	W
•			entle slope	p.ĸ	VII		• • • • •		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			•••
Table 24 CORVEG landform Landform situation	situation	Code	Landform situation	Coc	le	Slope class	EG typ	es of erosior	nal landform	patterns by s	lope and re	lief class co	des	
PLAIN			HILLS, MOUNTAINS, TABLELANDS	F		Class	LE	VG	GE	MO .	ST	vs	PR	
Not otherwise specified, flat g slopes, undulating terrain Downs, open downs, rolling d		^_/	Slope or hill not specified Cliff (steep rocky faces), rocky ledge,	F	_	İ .	Level	Very gently inclined	Gently inclined	Moderately inclined	Steep	Very steep	Precipitous	
ashy downs, pebbly downs			rocky outcrop, scarp, crack in rock, crevices			Percentage Degrees	<1 0 (1-3	3–10 3–6	10–32 7–18	32–56 19–29	56-100 30-45	100 >45	
						(rounded to nearest whole number)	`							
Alluvial plain or flat, alluvium, Inland clay pan, salt flat or pa Tidal flat, salt flat (coastal)		U V	Coastal rocky headland Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q		Relief class	1	L	Erosional la	andform patte	em	1		
STREAMS			DUNE			M Very high	-	-	-	RM	SM	VM	PM	
Lakes, banks of lake, river, st water course, levees + perma		С	Fossil coastal dune, high dune	s	Ť	>300 m (about 500 m)				Rolling mountains	Steep mountains	Very steep mountains	Precipitous	
Gully, drainage line, ravine go outwash— + intermittently we		D	Unspecified coastal dune, beach dune, recent coastal dune, low dune, coastal	R		H High 90- 300 m	-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		E	sandhill Inland dune, inland sandhill	+		(about 150 m)			111112					
sucams, bods + intermittently	llooded		·			L Low 30- 90 m (about 50 m)	-	-	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very steep low	B Badlands	
			WATER			R Very low 9-	-	GR	UR	RR	SR	hills B	В	
			Freshwater lake, lagoon, spring, stream Freshwater swamp, marsh, soak,	n X W		30 m (about 15 m)		Gently undulating rises	Undulating rises	Rolling	Steep rises	Badlands	Badlands	
			Seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z	_	P Extremely low <9 m)	LP Level	GP Gently undulating	UP Undulating plain	RP Rolling plain	B badlands	B Badiands	B Badlands	
D i				•			Plail	plain	piani	psam				
<u>Disturbance</u> Fire scars:	>3	5 - L	+m										0/ 5	_
				••••	• • • • • • •		• • • • •			• • • • • • • • • •	• • • • • • • •		%.2	ب
Feral animal: Weeds:		• • • • • •		••••		• • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • •	% > v =	
														_
Other:	۲\ ۲	ioc	ging / track	<u>Y</u>	(בָּבָּאָיִ	Y		rmai	O.T	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •	>.%.5	,
Health: Pristin	ne / Ex	xcelle	nt / Very Good Good	A (E	verage	/ Degrade	ed /	Complet	tely Deg	raded (a	lmost w	ithout na	atives)	
Special signifi	<u>icanc</u>	<u>e</u>												
Cultural:	- 		· · · · · · · · · · · · · · · · · · ·											
Recreational:														
Conservation	Rec	son	able sizea	ver	nna	nt Ps	atc	بر ربا	near	VIVE	w k	ca.		
Commercial:.														
Other Notes:	Str	can	n/river west	01	(v	emnor	<i>t</i>	Sm	1ي /	vip o	of vi	grov	44	
track a	nd	cl.	enred VPA	46	MI	est W	1/	Viv	en	and	Ve	mne	2n+	••
Suggest	5/	te	035 (vearou	vt l	,) 0	no	100	7100	bu.	ffer	for	Cs	eesc	•
Reavonti			035 (regrain	en	,, (e	line	<u> </u>	151		<i>, ., .</i>	. 4¥?.			
	٠٠٠٠/٠٠٠ ا	 	ce line to	**. : : `			· · · · · ·	[.] .				i	• • • • • • • • • • • • • • • • • • • •	• •
	t	-(1)	ce ine to	(NEE	K = 5	M.							

Width of community: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			Bare ground 5%
Canopy	16	50	- J
Mid	3	60	
Ground	.0.3	40	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species)

All woody species present within 50m Species	Rel.	Form	uomina	nt and th	reatened (m)	u non-wo	ooay spe	cies)	
	Dom.		E	T1	T2	T3	S1	S2	G
C citriodora	F	T		16					
E siderophloia	F	T		16					
E. molycanna	0	T		16					
E. Limbra	D	T		16					
M. nodosa	Α	Smi T					3		•
Pultenaea villosa	F	Sh	_		-				
A . ulcifolia	F_	Sh						1.5	
Exocarpus upressiformis	F	SmI T						1.5	
A irrorata (s)	0	sml T					2		
Ozothamnus diasmifolius	0	,					2		
Daviesia ulicifolia sub. stenopna	11a	Sh							05
Luecopogon junisperensis	0	Sh							0.5
Dianella caerulea	0	H	<u> </u>						0.3
Entolasia stricta (Wirey)	F	<i>C</i> ₁				_			0.8
Cassytha pubescens laure!	R	V						1	
Hardenbergia violacea	0	V						·	
Geitono pies ium sp (climbia	(a) R	V							
Senecio madagas caviensis	R	H							0.3
Poa sieberiana var	<u>O</u> .	G	<u> </u>						0.2
sieberiana									
* KEITH -NSW69 - HUN	ITER /	1ACLEA	y DRY	SCLE	ROPHYL	L FORE	ST		
D CRA - FE 33 - DRY F	00T#I	LL S	OTTED	GUM					

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

Site Number:	: FL	Assesso	or:!	Bt CL			• • • • • •	Date	: <u>.</u>	3 / (29./20	08
Location:	SMITH.	CREEK CRO	ssing	(KP 56	5)							
GPS Projecti	on: Lat-	-Long UTM D	atum: (GDA94; WGS	S84;	AGD84		Zone	e: .5	6		
Latitude / Ea	sting:	0390395. L	ongitud	le / Northing	:(040	1440)(C	Waypo	oint #:	.റക	2
Photo:2.	75 Ž / 2	2758 / 2759 (c	orridor								_	
Soil Colour	Soil Se	econdary Texture	Soil F	Primary Text	ure	Othe	r Soil	Notes	3			
Whitish		Clayey		Clay		stor	ney	sar	nd iv	CVE	ek be	d
Pale Yellow		Silty Sandy		Silt Loam)					
Orange		Gravely		Sand								
Brown		Stony		Gravel								
Red				Saline Mud								
Black				Calific Maa								
Mottled												
Altitude: Landform: Table 24 CORVEG landform Landform situation PLAIN			Code	Slope class	EG types	of erosional	landform	patterns by s	slope and re	lief class co	des	
Not otherwise specified, flat g slopes, undulating terrain Downs, open downs, rolling d		Slope or hill not specified Cliff (steep rocky faces), rocky ledge	F	Class	Levei \	Very G gently in	SE Sently nclined	MO Moderately inclined	ST Steep	VS Very steep	PR Precipitous	
ashy downs, pebbly downs	·	rocky outcrop, scarp, crack in rock, crevices	' ·	Percentage Degrees	<1 1		10 6	10–32 7–18	32-56 19-29	56-100 30-45	100 >45	
				(rounded to nearest whole					10 20	55–35		
Alluvial plain or flat, alluvium, Inland ciay pan, salt flat or pa Tidal flat, salt flat (coastal)		Coastal rocky headland Top, crest of mountain or ridge	N K	number) Relief class	L				l		l	
STREAMS		Jump-up, mesa, tableland, plateau DUNE	0	M Very high	_ -		rosionaria	ndform patte	SM	VM	I PM	
Lakes, banks of lake, river, st water course, levees + perma		Fossil coastal dune, high dune	s	>300 m (about 500 m)				Rolling mountains	Steep mountains	Very steep mountains	Precipitous	
Gulty, drainage line, ravine go outwash— + intermittently we		Unspecified coastal dune, beach dur recent coastal dune, low dune, coast sandhill		H High 90- 300 m	- -	Ū	IH Indulating ilis	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		Inland dune, inland sandhill	Т	(about 150 m)			ıL	RL	SL	VL	В	
			_	90 m (about 50 m)		Įυ	Indulating w hills	Rolling low hills	Steep low hills	Very steep low hills	Badlands	
		WATER Freshwater lake, lagoon, spring, stre.		R Very low 9– 30 m (about	(∋entiy ∪	R Indulating	RR Rolling	SR Steep	B Badiands	B Badlands	
		Freshwater swamp, marsh, soak, seepage area	ŵ	15 m) P Extremely	ri	indulating ristses GP U	ses	rises	rises	В	В	
		Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Y	low <9 m)	Level C	Gently ∪	Indulating lain	Rolling plain	badlands	Badlands	Badiands	
Disturbance Fire scars: Feral animal: Weeds: Other:	✓ H)							.<%5	5 / 30
Health: Pristin	ıe / Excell	lent / Very Good / Goo	od / Aver	age / Degrade	d / C	ompletel	ly Degr	aded (al	most wi	thout na	ıtives)	
Special signifi	cance											
		***************************************			• • • • • •		• • • • • • •	· · · · · · · · ·	• • • • • • •		• • • • • • • • •	••
Recreational:		You commach -	······································									•••
		der connecting	£!!	ry veg a	1101	7 / W	aynı	Vai	·	1	1.P.E	
Commercial:					•••;	• • • • • • • • • • • • • • • • • • • •						
Other Notes:	HDD	it possible.	Min	mum	wid-	th r	766	ssar	41e	ssent	ally	
just the	widt trees	if possible. th of pipe). to avoid	SOLH (GO	th of si down hi	H 1)	ven	77 <i>a</i>	Ω^{t}	sta	701	0¥	
•••••				•••••							,	

Job Number: S60665

Vegetation Monitoring Data Sheet

Width of community: (<35m wide); 35-75m; 75-150m; 150-300m; >300; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; (not linear) Total community area: Does not extend beyond site; <1ha; (1-5ha;) 5-20ha; 20-50ha; >50ha Total remnant area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			Bare ground = 30%
Canopy	06	80%	Pepples, stones and cobblers on stream bed (no water)
Mid	3	50 /	on stream bed (no water)
Ground	0.5	20	1

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form Ht (m) Dom. T1 T3 G Backhousia myrtifolia T D T B Hibiscus heterophyllus F F SmI T Aphananthe philippinensis Indeferminate (s) leaf smooth sm/T Syzuaium australe (5) Acacia leiocalyx R T 10 10 mbing R Pyrrosic confluens 匚 V fern Nat Notelaea venosa R S ciive 1.5 Mallotus phillopensis kamaia 5 3 Mellow R S Pittosporum unaulatum nube fla ** Rubus S # R Leuropogon juniperus. R Cissus antarctica Iwombat) Eustrephus latifolius (R Vine Staghorn Platacerium superbum R F Maclura cochinchinensis (COCK SPUVI 5-leaflet Pandorea pandorana (s) R Red R Kenn edia rubicunda. \vee fabiacea Sh Bursaria spinosa A Sh Lantana camera ** * 1-1 0-8 Biolens pilosa Н ¥ * Senico madagascaris Rough 0.7 Sea seotge * KEITH - NSW 4- DRY RAWFOREST GCRA - FE168-RAINFOREST

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

cleared pasmie

Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

Example 1. **LHCCREMS - MU 3 - HUNTER VALLEY DRY RAINFOREST

	Veç	geta	tion Monitoring	Data	ı SI	hee	et		Job l	Numbe	er: S6	0665		
Site Number:	F	L 1	و Assessoı	rt (TB	+	CL				Date	. OZ	5 / 0	9 /2008
			OPERTY - Remr											
							A94;) WG:				`	_	_	•••••
			0389900 Lc	nait	nde	- / i	Northing	•	6396	0446		 Navnα	nint #·	063
Photo:2.7	160	/2	76 ⁽ .	/	uu	<i>.</i>	14011111119					ruype	<i>σ</i> π ιι π.	
			·					••••						
Soil Colour	Soil	Sec	ondary Texture	Soi	ΙP		ary Text	ure	Oth	er Soil	Notes	<u> </u>	·	
Whitish Pale			Clayey Silty			ا ۔	Clay Silt							
Yellow			Sandy		<		oam							
Orange			Gravely				Sand							
Red			Stony			Ģ	Gravel						•	
Oark						Sali	ine Mud							
Black Mottled														
Landform:		latir codes	9 hill slopes.				Table 25 COR\							SW; W; NW
Landform situation		Code	Landform situation HILLS, MOUNTAINS, TABLELANDS	Coc	ie		Slope class							
Not otherwise specified, flat ge slopes, undulating terrain	entle	A	Slope or hill not specified	F	5		Class	LE Level	VG Very	GE	MO Moderately	ST Steep	VS Very	PR Precipitous
Downs, open downs, rolling do ashy downs, pebbly downs	owns,	*	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	T			Percentage	<1	gently inclined 1–3	inclined 3–10	inclined 10–32	32–56	steep 56-100	100
			crevices				Degrees (rounded to	0	1-2	3-6	7–18	19-29	30-45	>45
Alluvial plain or flat, alluvium, f		Б	Coastal rocky headland	N			nearest whole number)							
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)	n (inland)	V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	Q	╡		Relief class			Erosional la	endform patte	m		
STREAMS Lakes, banks of lake, river, str	**************************************	С	OUNE Fossil coastal dune, high dune	s			M Very high >300 m (about	-	-	-	RM Rolling	SM Steep	VM Very	PM Precipitous
water course, levees + permar	nent water						500 m)	 -		UH	mountains RH	mountains SH	steep mountains VH	PH
Gully, drainage line, ravine gor outwash— + intermittently wet Bed of channel—distributaries	of inland	E	Unspecified coastal dune, beach dune recent coastal dune, low dune, coastal sandhill Inland dune, inland sandhill				High 90– 300 m (about 150 m)			Undulating hills	Rolling hills	Steep hills	Very steep hills	Precipitous hills
streams, beds + intermittently	TIOOGEG						L Low 30– 90 m (about 50 m)	-	-	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very steep low hills	B Badlands
			WATER Freshwater lake, lagoon, spring, streat Freshwater swamp, marsh, soak,	m X W	_		R Very low 9– 30 m (about 15 m)	-	GR Gently undulating rises	Undulating rises	RR Rolling rises	SR Steep rises	B Badlands	B Badlands
			seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y			P Extremely low <9 m)	LP Level plain	GP Gently undulating plain	UP Undulating plain	RP Rolling plain	B badlands	B Badlands	8 Badiands
Special significultural:	cance	cceller		d / A	vera	age	/ Degrade	ed /	Complet	ely Deg	raded (al	most wi	thout na	% %
Commercial:			• • • • • • • • • • • • • • • • • • • •											
		ep.	pipeline +	0	01	rec	adu	CI	lear	ed	pow	er lir	7-e	
Corridor	(2	5m	pipeline + wide) * (ons	crv	ah	01	rese	N			·/· · · · · · · · · · · ·			

Width of community: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear)
Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear)
Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha
Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			* NO Bare ground
Canopy	15	40	
Mid	6	40	
Ground	0.5	60	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Species Rel. Form Ht . (m) E Dom. <u>T1</u> T2 T3 <u>S1</u> S2 G F 15 C. citriodora M: nodosa Dsmi T 6 \bigcirc T 15 E. Siderophioia (ح) E umbra T F 15 Leptospermum morrisonu SmI T 0 4 A ulcifolia 0 Sh 1.5 Pullenaea villosa Sh stacknousia sp. (s) Indet. 0 Sh 0.3 Bursaria spinosa Sh 2 R Hardenbergia violacea \vee Sh Daviesia ulicifolia sub. R chophylla Luecopogen juniperus Sh PETALOCHIUS COTANATUS. Н 0.2 Lomanara gracilis G Entolosia stricta A a G Poa sieberiana var sieberiana 0:3 F Pratia purpurascens \vdash I 0-1 Themedo triandra G 0 0.5 Gonocarpus teurioides (Rasp) R Η 0.3 Andropogon virginicus KEITH-NSW69- HUNTER MACKERY DRY SCLEROPHYLL FOREST CRA-FE71 - RONBARK

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

	Vege	ta	tion Monitoring D	ata	Sheet			Job	Numb	er: S6	0665			
Site Number	F.L.	17	Assessor:		JB+CL			÷		Date	63	3 / 0	9/20	ነጣዩ
			- FINLAYSO			••••	••••			Date			/ 2.	,,,,
	-				(GDA94;)	·····		۰۰۰۰۰۰۰	 Л		······	56	• • • • • • • •	•••
Latitudo / Eas	oii. La etina:	יוי-בינ	387511 La	oait:	Ido / Norti	vv G.	304, 	630	1 4 13741		Move		066	····
Photo:28	:03		2387511 Loi GREV	IL L	EA 5P		· · · · · · · · · · · · · · · · · · ·	— P	4 2	79b.	- 2	8 <i>02</i>		
Soil Colour	Soil S	ec	ondary Texture	Soil	Primary 7	-ext	ure	Oth	er Soi	Notes				
Whitish	- COM-C		Clayey		Clay	<u> </u>	.u.c		01 001	11000				
Pale Yellow		_	Silty		Silt									
Orange	-	(Sandy Gravely		Loam Sand									
Brown			Stony		Gravel									
Red grey Dark					Saline Mu	d								
Black	-				Gaine Wa	•								
Mottled												_		
Altitude:\$	3 <i>0</i>		m Slope:						Aenac	t: N; N	E, E, Q	E C C	elav. IAV.	A II A
	aen			DO	JIN			•	парес	t. IN, IN	E, E, 3	∟, o, c	, vv. vv,	INVV
Table 24 CORVEG landform	situation cod	es	. 0	-1		5 COR	VEG typ	es of erosio	nal landform	patterns by	slope and re	lief class co	des	. .
Landform situation	C	ode	Landform situation HILLS, MOUNTAINS, TABLELANDS	Code	Slope	lass								
Not otherwise specified, flat g	entle A		Slope or hill not specified	F	Class		LE Level	Very	GE Gently	MO Moderately	ST Steep	VS Very	PR Precipitous	1
slopes, undulating terrain Downs, open downs, rolling do ashy downs, pebbly downs	owns, *		Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	1	Percent	200	<1	gently inclined	inclined 3–10	inclined 10–32	32–56	steep 56–100	100	
Alluvial plain or flat, alluvium,	flood plain B		crevices Coastal rocky headland		Degree (rounde nearest number	s d to whole	0	1-2	3-6	7–18	19–29	30-45	>45	
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)			Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q	Relief				Erosional I	andform patt	ern	1	-	١.
STREAMS			DUNE	:	M Very >300 m		-	-	-	RM Rolling	SM Steep	VM: Verv	PM Precipitous	1
Lakes, banks of lake, river, str water course, levees + perman			Fossil coastal dune, high dune	s	500 m)	(about				mountains	mountains	steep mountains		
Gully, drainage line, ravine gor outwash— + intermittently wet			Unspecified coastal dune, beach dune, recent coastal dune, low dune, coastal sandhill	R	H High 90 300 m (about t		-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently			Inland dune, inland sandhill	Т	L Low 3	0-	-	-	UL	RL	SL	VL	В	-
				İ	90 m (a 50 m)	but			Undulating low hills	Rolling low hills	Steep low hills	Very steep low hills	Badlands	
			WATER Freshwater lake, tagoon, spring, stream	 x	R Very ! 30 m (a 15 m)		-	GR Gently undulating	UR Undulating rises	RR Rolling rises	SR Steep rises	B Badlands	B Badiands	
			Freshwater swamp, marsh, soak, seepage area Gilgai, melon hole, sinkhole	W Z	P Extre		LP	rises	UP	RP	В	В	В	
			Saltwater, sea. saltwater swamp	Y	low <9 r	1)	Leve/ plain	Gently undulating	Undulating plain	Rolling plain	badiands	Badlands	Badiands	
Disturbance							1	paul	I	1		- L		1
Fire scars:			• • • • • • • • • • • • • • • • • • • •										%.	
Feral animal:	×												%.	
Weeds:													%.	
Other: .Tvac	K Jh,	(0)	19h /eg/ 50,	<u>γ.ę</u> .	erosion									Ē,
Health: Pristin	ie / Exce	eller	nt / Very Good / Good	A Av	verage / Deg	ırad€	ed·/	Comple	tely Deg	raded (a	lmost w	ithout na	atives)	
Special signifi	cance											•		
Cultural:	-													
Recreational:			***************************************				• • • • •		• • • • • • • • • • • • • • • • • • • •					•••
Conservation:	Conv	ne.	c15 to 1019	ev	remna	γ†·	-fo	/ ہوم،	NP.	GREW	LEA P	ARVIFI	ORA .	• • • •
Commercial:			لل	• • • • •					•••••	:	(Vo	LNER	ABLE)
	Plac	····	onstruction to	۰۰۰۰۰	e vestri	 Her		o	vead (1 CH	 ear e r	λ α	·······	
			necessary, dear							ن 				
• • • • • • • • • • • • • • • • • • • •							••••							.

Width of community: <35m wide; 35-75m; (75-150m); 150-300m; >300; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; >50ha Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; (>50ha)

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			
Canopy	12	50/	
Mid	35	5/10/.	
Ground	0.8	60%	

All woody species present within 50m Species	Rel.	Form		Ht	(m)				
	Dom.	<u> </u>	Е	T1	T2	T3	S1	S2	G
c atriodora	0	T		12			•		
E siderophlora	D	T		12					
Leptospermum morrisonii	F	T				2.5			
Exorarpus Cuppressiformis	R	T				4,			
Ozothamnus diosmifolius	0	Sh						1	
Daviesia ulicifolia sub stenophy	11a0	Sh							0.5
Pullenaeg villosa	D	Sh						1	153
Dillnynia sp. 'trichopada' (s arevillea parviflora sparite	0	5							0-5
Grevillea parviflora fromer	17	Sh							0.4
Dianella caerulea leaf	0	H							0.5
xantherroeq johnsonii	F	5h							0.5
Themeda triandra	Ã	G.						/	0.5
Entolasia stricta		G		-					0.4
Hardenbergia violarea	R	V							
	0	Н							0.2
Lomandra gracilis	0	G						,	0.3
Wurmbea diocia Lomandra gracilis Philothrix deusta (5)	0	Н							0-4
Lepidospermum laterale	0	H		· ·					0.5
Petalochilus catanatus (white)	0	<i> -</i> -/							0.4
Petalochilus catanatus (orcia)	F	H				_			0.3

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum

Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

LHCCREM S - MU 16 - SEAHAM SPOTTED GUM IRONBARK FOREST

BCRA - FETI - IRONBARK

	Veget	tation Monitoring	Data :	Shee	t		Job	Numb	er: S6	0665			
Location:	<i>Mallord</i> on: Latesting: 29 / 28	386 542 La 310	esevv atum: ongitu	GDA de / N	P67- 94) WG Northing	S84;	V. of AGD8	<i>Por</i> 4	<i>veline</i> Zone	<i>ea</i> e: .5	sem-	ent.	
Soil Colour	Soil Se	econdary Texture	Soil		ary Text	ure	Oth	er Soil	Notes	3 <u>. </u>		<u> </u>	
Whitish Pale Yellow Orange Brown Red Dark Black Mottled		Clayey Silty Sandy Gravely Stony		Le S Gr	Clay Silt coam and avel ae Mud								
Altitudo: \	5	Clana						۸ ـ ـ	, L				
Landform: Table 24 CORVEG landform Landform situation	Undu	le Landform situation	Code		Table 25 COR\					• • • • • • • • • • • • • • • • • • • •		SW (W)	NW
Not otherwise specified, flat go	entle A	HILLS, MOUNTAINS, TABLELANDS Slope or hill not specified	F		Class	LE Level	VG Verv	GE Gentiy	MO Moderately	ST Steep	VS Very	PR Precipitous	1
slopes, undulating terrain Downs, open downs, rolling do ashy downs, pebbly downs	owns, *	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	L		Darsastana		gently inclined	inclined	inclined	·	steep		
Alluvial plain or flat, alluvium, t	flood plain B	Coastal rocky headland	N		Percentage Degrees (rounded to nearest whole number)	0	1–2	3–10 3–6	10–32 7–18	32–56 19–29	56–100 30–45	100 >45	
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q] [Relief class			Erosional la	ındform patte	ern	•		
STREAMS		DUNE		}	M Very high >300 m (about	-	-	-	RM Rolling	SM Steep	V M ∀ery	PM Precipitous	1
Lakes, banks of lake, river, str water course, levees + permai		Fossil coastal dune, high dune	s] [500 m)				mountains	mountains	steep mountains		
Gully, drainage line, ravine gor outwash— + intermittently wet		Unspecified coastal dune, beach dun recent coastal dune, low dune, coasta sandhill	at		H High 90– 300 m (about 150 m)	-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		Inland dune, inland sandhill	T		L Low 30– 90 m (about 50 m)	-	-	UL Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very steep low	B Badiands	
		WATER			R Very low 9-	_	GR	UR	RR	SR	hills	В	ł
		Freshwater lake, lagoon, spring, strea Freshwater swamp, marsh, soak,	m X W		30 m (about 15 m)		Gently undulating rises	Undulating rises	Rolling rises	Steep rises	Badlands	Badlands	
		seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y		P Extremely low <9 m)	Level/	GP Gently undulating	UP Undulating plain	RP Rolling plain	B badlands	B Badlands	B Badiands	
Disturbance				Ļ			plain					L	ı
Fire scars: Feral animal:													
Weeds: Lan			• • • • • • •										
Other:	e hn	nber (utting											5/
Health: Pristin	e / Excell	lent / Very Good / Goo	d / Ave	erage /	Degrade	ed /	Complet	ely Deg	raded (al	most wi	ithout na	atives)	
Special signifi													
Cultural:													
Recreational:													>
Conservation:	(on	inects to la	rger	ve	mnar	H	v 40)	(Wo	illaro	ot	vahu	re P	<u>es)</u>
Commercial:		*******************											
Other Notes:	Keep	o pipeline (o	nstru	chic	n +	0	alr	e0101L	1 C	1000	1001		
poner lin West s	e ea	sement (25m of easement 0.5m DBH	wi t P	vefer	able	m	<i>bl</i> 15 r	W narron	poles vex st) P 01	v ec		
		E 0 15	10 1	W									

Width of community: <35m wide ; 35-75m ; 75-150m ; 150-300m ; >300 ; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear

Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; (>50ha³) Total remnant area: Does not extend beyond site; <1ha ; 1-5ha; 5-20ha ; 20-50ha ; (>50ha)

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			10% bare ground
Canopy	16	50%	7
Mid	5	601.	
Ground	0.5	40/	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species)

	T T SmIT Sh Sh Sh Sh Sh Sh	E	T1 16 16	T2	5	S1	S2	<i>O</i> 8
Si	SmIT Sh Sh Sh Sh		1		5		1.5	
Si	smIT Sh Sh Sh sh		16		5		1.5	
	Sh Sh Sh Sh.				5		1.5	
	Sh Sh Sh Sh.				5		1.5	
	Sh Sh Sh Sh.				5		1.5	
	sh sh						1.5	
	sh sh.							
	sh.						/	
_							/	
	Sh							
							<u> </u>	0.8
	_							_
	G.							0-
	Sed	_					/	
	H							6.3
	H							0.3
	H							0.7
	1-1	,			-			0.1
\perp	Н							01
\perp	G.							0.5
	V							
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	CI-						, -	
	500						11.0	
)) G. V) G. V) G. V) G. V) G. V.) G. V) G. V

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot

Species annotations: S = Specimen Collected; "= Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot
Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum
Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

KEITH - HUNTER - MACLEAY DRY SCLEROPHYLL FOREST (NSW 69)

LHCREMS - MU 16 - SEAHAM SPOTTED BUM - IRONBARK FOREST (OUTSIDE LHCREMS ARE
CRA - FE 71 - IRONBARK

	Ve	geta	ition Monitoring	Data :	Shee	et		Job	Numb	er: S6	0665			
Site Number:	F	<u> </u>	9 Assesso	r:						Date	. 01	t. 1. C	9 /20)08
Location:	Wall	100	o Namie Re	serre	(1	CP 69.5	5)-	To	West c	of Po	werlin	n€` .e6	asem-	en
			.ong; (UTM) Da	*										
Latitude / Eas	stina:	C	385636 Lo	naitu	de /	Northing	·	639	10 75.	8 1	 Mavnα	oint #·	080	• • • •
Photo:2.5	811 -	28	13											••••
Soil Colour	Soil	Sec	ondary Texture	Soil	Prim	ary Text	ure	Oth	er Soil	Notes				
Whitish			Clayey			Clay								-
Pale Yellow			Silty Sandy			Silt ₋oam								
Orange			Gravely			Sand								
Brown			Stony		G	Gravel .								
Red (Dark)					Sali	ne Mud								
Black														
Mottled														
Table 24 CORVEG landform Landform situation	Gen.	+14.	undulating	Code	lain	Table 25 CORV	ma	II d	raina	.g-е	line	· · · · · · · · · · · · · · · · · · ·	SW; (W)	NW
PLAIN Not otherwise specified, flat g	entie (A	HILLS, MOUNTAINS, TABLELANDS Slope or hill not specified	F	4	Class	LE	VG Very	GE	MO	ST	VS.	PR	
slopes, undulating terrain Downs, open downs, rolling do	owns,	 -	Cliff (steep rocky faces), rocky ledge,	L	-	İ	Level	gently inclined	Gently inclined	Moderately inclined	Steep	Very	Precipitous	1
ashy downs, pebbły downs			rocky outcrop, scarp, crack in rock, crevices			Percentage Degrees	0 (1-3	3-10 3-6	10–32 7–18	32–56 19–29	56–100 30–45	100 >45	ĺ
Alluvial plain or flat, alluvium, t	flood plain	B	Coastal rocky headland	N	1	(rounded to nearest whole number)								
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		U V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K		Relief class			Erosional la	ındform pattı	ern			
STREAMS			DUNE			M Very high >300 m (about	-	-	-	RM	SM	VM	PM	
Lakes, banks of lake, river, str water course, levees + perma		c	Fossil coastal dune, high dune	s	1	500 m)				Rolling mountains	Steep mountains	Very steep mountains	Precipitous	
Gully, drainage line, ravine gor outwash— + intermittently wet		0	Unspecified coastal dune, beach dune recent coastal dune, low dune, coastal sandhill	, R		H High 90- 300 m (about 150 m)	-	_	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		E	Inland dune, inland sandhill	Т		L Low 30- 90 m (about	-	_	UL Undulating	RL Rolling low	SL Steep low	VL Very	B Badiands	
			WATER		1	50 m)		CB	low hills	hills	hills	steep low hills		
			Freshwater lake, lagoon, spring, strea Freshwater swamp, marsh, soak,	m X	-	R Very low 9– 30 m (about 15 m)	-	GR Gently undulating	Undulating rises	RR Rolling rises	SR Steep rises	B Badlands	B Badlands	
	-		seepage area Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y	-	P Extremely low <9 m)	LP Leyel	rises GP Gentiy	UP Undulating	RP Rolling	B badlands	B Badlands	B Badlands	
			Sanwater, sea, sanwater swamp		_1		platin	undulating plain	plain	plain	_			J
Weeds:			99109											20
Health: Pristin	ie / Ex	celle	nt / Very Good / Goo	d / Ave	erage	/ Degrade	ed /	Complet	ely Deg	raded (a	lmost w	ithout na	atives)	
Special signifi	canc	<u>e</u>												
Cultural:						• • • • • • • • • • • •								
Recreational:														
		5161	le vare vea t	10e	witi	hin al	ea	1conr	nects	-10 10	argei	se l	chica	
Commercial:			le rave veg h of wallar	06	NA	hue r	erc.	ve /	emn	ant	v <i>oc</i> i			
Other Notes	Confi	 n <i>e</i> :	pipeline constri	u Ctin	n 4	G alve	201	ان ام	10111	ו'ימ	ارت مدمزار صد			• • • •
easement	Avoi	 d	leaving if	7/10/ 20014	اا ما ما	/ 200	ה הייני ביומי	ا برا نامهای این	2 AL	<i>F:F</i>	1411/15 Z	• • • • • • • • • • • • • • • • • • • •		
Some Line		\mathcal{A}	learing if po	رم/درم م	<i>ጩ።.</i> ?	i riciyya	rve	y 1/7 /f	- 7N	ur) E	•			
Peron- 10-	/ ^	<i>γ.</i>	5m (Blue C	1 mm	رار م				······	<i>C</i>				
	: <i>0</i>	12	significant Re	00151	ve i	1.50)/.4	rivi	icn.		046	4.0			•••

Width of community: (<35m wide,); 35-75m; 75-150m; 150-300m; >300; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha;

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes	14
Emergent				
Canopy	16	401		
Mid	5	70%		
Ground	1	30%		

All woody species present within 50m > Species	Rel.	Form		Ht	(m)		, -		
	Dom.	1	Е	T1	T2	T3	S1	S2	G
C. citriodora	А	1		16					
E. umbra	A	Т		16					
Angophora subvelutina	R	T		16					
E-tereticomis		T		16					
Alphotonia exselsa.	0	SmIT						2	
(Backhousia myrtifolia	A	SmI T				4			
Pittosporum undulatum (S)	Α	SmI T				6			
Ficis coronala (sonapaper)	\bigcirc	SmIT					3.5		
Acacia urorata	0	SMIT					3		
Melicope micrococca (Tircores)	0	Sm T	-				3		
Lomantia hijstrix	A	H					3		
Busaria spinosa	0	Sh					3	1.5	
(entella asiatica (penny)	F	I							0.5
Scleria sp.	F	Sed							0.
Stephania japonica (snake)	\circ	\ \							
Parsonia straminea (monkey)	F	\							
Clematis aristata	F	<							
Cissus antarchica	Α	V							
Lontana camera	F	Sh.						2	
	F	Sh.			-			2	
Gempho car pis physolarpus (Ballocan)	F	5h						1.5	
S enecio madagascoris	.0	H							0.2
(E)Keith - NSW4 - DRY R)INF	ORES							

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot

Species annotations: S = Specimen Collected; ~= Exotic Species; ~= Declared Species; + = Outside but adjoining 50m x 10m plot
Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum
Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

(Dutside LHCCREMS boundary)

(Dutside LHCCREMS boundary)

(Dutside LHCCREMS boundary)

(Dutside LHCCREMS boundary)

(Dutside LHCCREMS boundary)

(Dutside LHCCREMS boundary)

	Vegeta	ation Monitoring	Data S	heet		Job	Numbe	er: S6	0665		
Site Number:	FL 20) Assessor	" J£	S+ CL				Date	· 05	5 / 0	9 /2n
Location: K	P73-)Assessoi JAMES - B/N	i We	etland .	ξ' Ι	River	· · · · · · ·	Date		/	20
				_						/	
GPS Projection	on: Lat-L			GDA94; WGS							
		82 408 Lo	ngitud	e /ˈNorthing	:	030	1054		Waypo	oint #:	094
Photo:25	302 -	2864			• • • • •	• • • • • • • •					
Soil Colour	Soil Sec	condary Texture	Soil P	rimary Text	ure	Oth	er Soil	Notes	<u> </u>		
Whitish		Clayey		Clay		* //	vateri	0901d			
Pale Yellow		Silty Sandy		Silf		" '	0.,0,				
Orange		Gravely		Sand							
Brown		Stony	9	Gravel						•	
Red				Saline Mud							
Black				Saline Muu							
Mottled											
Altitude:	6	m Slone:		•			∆enec	t ni ni	E. (E.) e	E. Q. Q	SW; W; 1
		p - western			· · · · ·	•	Aspec	L. IN, IN	L,(L,)3	E, O, C	5VV, VV, I
Table 24 CORVEG landform	•	Landform situation		Table 25 CORV	EG typ	es of erosio	nal landform	patterns by	slope and re	lief class co	des
PLAIN	Code	HILLS, MOUNTAINS, TABLELANDS	Code	Slope class		**					
Not otherwise specified, flat go slopes, undulating terrain	entle A	Slope or hill not specified	F	Class	LE Level		Gentiy	MO Moderately	ST Steep	VS Very	PR Precipitous
Downs, open downs, rolling do ashy downs, pebbly downs	owns, *	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	L	Percentage	<1	gently inclined 1–3	inclined 3–10	inclined 10–32	32–56	steep 56–100	100
		crevices		Degrees (rounded to nearest whole	0	1–2	3-6	7-18	19–29	30-45	>45
Alluvial plain or flat, alluvium, f Inland clay pan, salt flat or pan		Coastal rocky headland Top, crest of mountain or ridge	N K	number)							L
Tidal flat, salt flat (coastal)	. V	Jump-up, mesa, tableland, plateau DUNE	Q	Relief class M Very high		1	Erosional la	indform patt		1.04	
Lakes, banks of lake, river, str water course, levees + permar		Fossil coastal dune, high dune	S	>300 m (about 500 m)	-	_	_	RM Rolling mountains	SM Steep mountains	VM Very steep	PM Precipitous
Gully, drainage line, ravine gor outwash— + intermittently wet	rge, D	Unspecified coastal dune, beach dune		H High 90–	-	-	ÚH Undulating	RH Rolling	SH Steep hills	mountains VH Very	PH Precipitous
Bed of channel—distributaries	of inland E	recent coastal dune, low dune, coastal sandhill Inland dune, inland sandhill	T	300 m (about 150 m)			hills	hills		steep hills	hills
streams, beds + intermittently	flooded			L Low 30— 90 m (about 50 m)	_	- (Undulating low hills	RL Rolling low hills	SL Steep low hills	VL Very steep low	B Badlands
		WATER		R Very low 9- 30 m (about	-	GR Gently	UR Undulating	RR Rolling	SR Steep	hills B Badlands	B Badlands
		Freshwater lake, lagoon, spring, strear Freshwater swamp, marsh, soak, seepage area	T W	15 m)		undulating rises	rises	rises	rises		
		Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Z Y	P Extremely low <9 m)	LP Level plain	GP Gently undulating plain	UP Undulating plain	RP Rolling plain	B badlands	B Badlands	B Badlands
<u>Disturbance</u>					· .	ран			Л		
Fire scars:	• • • • • • • • • • • • • • • • • • • •						• • • • • • • •				%
Feral animal:		·	. .								%
Weeds:	$(\rightarrow m$	aybe more =	hy	aunth)) ••••						.≮.%.5
Other:Ca.t.f.	le gra	2179		• • • • • • • • • • • • • • • • • • • •		,	• • • • • • • •	.,			%
Health: Pristin	e / Excelle	ent / Very Good / Good	d / Aver	age / Degrade	ed /	Complet	elv Den	raded (a	lmost wi	ithout na	atives)
				.go / 20g.uu0		Compion	ioiy bog	aaca (a		iti out i i	
Special significant	<u>cance</u>	4									
Cultural:	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • •	· · · · · · · · ·					
Recreational:		ا ا ا ا								· · · · · · · · · · · · · · · · · · ·	
Conservation:	wetlar	na nabitat		system	<u> </u>	·	vetlo	nd	env	von	
Commercial:				•••••		_.					• • • • • • • • • • • • • • • • • • • •
Other Notes:	Kest	ict pipeline	COr	15TYUCTIC	n	+ C	9	1100	dy		
cleared	past	ure lands	wes	+ 0-1	ι	~e-110	and.				
* Melealu	eia fo	and in site	ريا	10 caled	in	Sou	ther	γe	nd		
lin H	hrn e	nd (Orany	0	ver =	4	401		none		\sim	enn

Width of community: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear
Width of total remnant: <35m wide; 35-75m; (75-150m); 150-300m; >300; not linear
Total community area: Does not extend beyond site; <1ha; (1-5ha;) 5-20ha; 20-50ha; >50ha
Total remnant area: Does not extend beyond site; <1ha; (1-5ha, 5-20ha; 20-50ha; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent	5.	« 5	x open water in deeper parts
Canopy		_	of metlana
Mid		_	-
Ground		70	_

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) **Species** Rel. Form (m) Dom. T1 T3 G Melaleuca styphloides 0 Casuarina glavica:

Spirodella punctata (S) Meed

** Eichnornia (S) Water

crassipes (S) Mater

crassipes Δ A Junius pallidus Sed Α Covex appressa Sed. Α G * Senecio madagascariensis F 0.2 * Water plant (perscaria) (?) present, hower dead cannot be certain [itis, a water plant] * poss & burnton * LHCCREMS MU46: Freshwater Wetland Complex (mapped as * Keith — Coastal Freshwater Lagoons (56)

* FE - mapped as non-forest

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;

Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

	Ve	geta	ation Monitoring	Dat	a Shee	t		Job	Numb	er: S6	0665			
Site Number:	F	-L :	2.1 Assesso	r: .	JB+	CL				Date	. 04	4 1 C	2.9/20	ነብደ
Location:7	ta	Tre	e Melaleuca	د	wam	P - H	49	h P	rope	vty	- KF	75	7	,00
GPS Projection	on.	lat-l	e Melalcu (a. Long; UTM) Da	otun	n: 6D/	WC		. ACD	/		٠. <u>ج</u>	6	* * * * * * * * * * *	•••
Latitudo / Ea	oii. Stina:	Lat-L	0380834	snai	ituda / I	Northine	304, 	la 2 9	94 	12011 14	G .	<i>.и</i>	92	• • • •
Photo:	283 283	38	- 2847	myı	ituae / i	AOLIUIĻĪG	J		o∵1':⊃';	T	vvayp	oint #:	!.4	•••
Pnoto:	200	· · · · ·		• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •	• • • • • • •		• • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	• • •
Soil Colour	Soil	Sec	condary Texture	Sc	oil Prim	ary Text	ure	Oth	er Soi	Note	<u> </u>			
Whitish			Clayey			Clay								
Pale Yellow			Silty			Silt		*	Wa-1	erloc	gged			
Orange			Sandy Gravely			oam Sand					• -			
Brown			Stony		G	ravel								
Red Dark						M								
Black					Sali	ne Mud								
Mottled										_				
Altitude:	12 Papi	cr t	m Slope: . Dark Swamf	 o		•••••			Aspec	t: N; N	E; E; S	E; S; S	SW; W; 1	١W
Table 24 CORVEG landform	situation o	Code	Landform situation	10	ode	Table 25 COR	VEG typ	es of erosio	nal landform	patterns by	slope and re	lief class co	des	1
PLAIN			HILLS, MOUNTAINS, TABLELANDS		000	Slope class								
Not otherwise specified, flat go slopes, undulating terrain		A	Slope or hill not specified	F		Class	LE Level	VG Very gently	GE Gently inclined	MO Moderately inclined	ST Steep	VS Very steep	PR Precipitous	
Downs, open downs, rolling do ashy downs, pebbly downs	owns,	`	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock, crevices			Percentage	<1	inclined 1–3	3-10	10–32	32–56	56-100	100	1
Alluvial plain or flat, alluvium, 1	flood plain					Degrees (rounded to nearest whole number)	0	1-2 (3-6	7–18	19–29	30-45	>45	ı
Inland clay pan, salt flat or par Tidal flat, salt flat (coastal)		U V	Coastal rocky headland Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	K Q		Relief class			Erosional I	andform patt	em		1	
STREAMS			DUNE			M Very high	1-	T	 -	RM	SM	VM	PM .	
Lakes, banks of lake, river, str water course, levees + permai		С	Fossii coastal dune, high dune	s		>300 m (about 500 m)				Rolling mountains	Steep mountains	Very steep mountains	Precipitous	
Gully, drainage line, ravine gor outwash + intermittently wet		D	Unspecified coastal dune, beach dune recent coastal dune, low dune, coasta sandhill			H High 90– 300 m	-	-	UH Undulating hills	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries streams, beds + intermittently		Ε	Inland dune, inland sandhill	Т		(about 150 m)	_	-	UL	RL	SL	VL	В	
	···			_		90 m (about 50 m)			Undulating low hills	Rolling low hills	Steep low hills	Very steep low hills	Badiands	
			WATER			R Very low 9- 30 m (about	-	GR Gently	OR Undulating	RR Rolling	SR Steep	B Badiands	B Badlands	
			Freshwater lake, lagoon, spring, strea Freshwater swamp, marsh, soak, seepage area	Ŵ		15 m) P Extremely	LP	undulating rises GP	rises	rises	rises	Б	В	
			Gilgai, melon hole, sinkhole Saltwater, sea, saltwater swamp	Y		low <9 m)	Level plain	Gently undulating	Undulating plain	Rolling plain	badlands	Badlands	Badlands	
<u>Disturbance</u> Fire scars:	/		up 10 4-5	5 /	, ,			plain		<u> </u>	<u> </u>		%.5	50
Feral animal:		• • • • •	******************************		•••••	• • • • • • • • • • • • • • • • • • • •								
			enecão cuisic	Y.P	210+		·····	4.0	ہے				%	
vveeus:?	3.4.4.	ا	0.000 - 0		-								,	
Other:	77.7.1	Ť	grazing	,.			• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • •	%	•
Health: Pristin	e / Ex	celle	nt / Very Good / Goo	d / /	Average	/ Degrade	ed /	Complet	tely Deg	raded (a	lmost wi	thout na	atives)	
					_	_		•	, ,	,			,	
Special signifi														
Cultural:					• • • • • • • • • •		• • • •	,		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
			. 						• • • • • • • •		• • • • • • • •			•••
		ve !	1 community		withi:	n oit	<i>'9.</i>							
Commercial:		• • • • •						••••,•••						
Other Notes:	<i> </i> <-	eep	E pipeline		const	ructio)n	W	0 f	SWO	mp			
to min	imi	`s€	clearing, h	101	rologi	1. 5. L	VQ +	er 9	uali	hyin	npact	<u>, </u>		
If neces	ess a	r.Y.;	competine clearing, h swamp to	<u>.</u> .S.	can.	be	C.	ossec	<i>*</i> /	<i></i>				

Width of community: <35	5m wide ; (35-75m); 75-150m ; 150-300m ; >300 ; not linear
Width of total remnant: <	<35m wide; 35-75m; 75-150m; 150-300m; >300; not linear
Total community area: I	Does not extend beyond site; <1ha ; (1-5ha;) 5-20ha ; 20-50ha ; >50ha
Total remnant area: Doe	es not extend beyond site; 1ha; 1-5ha; 5-20ha; 20-50ha; >50ha **Systems of wetlands along liver.
	(*) systems of wetlands along liver.

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent	1.7)		
Canopy	14	70	
Mid	3	10 -	saplings
Ground		0-70/_	30, e glouno near water edge.

Areas of open water areas of oven in fig. 33

All woody species present within 50m > Species	Rel.	Form	domina	nt and tr		d non-w	oody spe	ecies)	
- Opecies	Dom.	FOIIII	E] T1	(m) T2	T3	S1	S2	G
Melalenca quinginervia(s)	D	T		14					
E. tereticoinis	0	T		15				_	
(. citiodora	0	T		15					
Cosvarina glav.ca	0	SMIT		12	-				
J 100 340									
			- · · ·	-					
Centella asiatica work	0	Н							0-1
Carex apresia (s) Prata purpurascens slower	A .	Sed.	· :					1	
I ralia purpurascens flower	0	1-1							0.
Parsonia straminea (monkey)	——— F	<u> </u>							•
	· · ·								
		1							
LHCCREMS - MU 37			<u>.</u>						;
Swamp Mahagany - Pa	peri	Dark	Fore	st.11	1 арр са	as 1	4441)		
Keith-loastal Jwamp	fore	ST							·
FE142 - Swamp Mahog	any	SFE 1	13:51	vam	b 0a,	(MC	opped a	S FEI	43)

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot
Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling;
Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)

Vegetation Monitoring Data Sheet					Job Number: S60665							
Site Number: FL22 Assessor: RM Date: 19/11/2008 Location: Remnant Vegetation Near Woods Rd												
Location										<u> </u>		•••
GPS Projection: Lat-L		tum:		494; WG				Zone		ف. ر	••••••	•••
Latitude / Easting: 0.3		ngitu	de / I	Northing	: :	2 4.4 °	4.7.	۰ ا	Waypo	oint #:	*****	
	371256/		•••••		• • • • •					••••••		
		Soil	Prim	ary Text	ure	Oth	er Soil	Notes	\$			
Whitish Pale	Silty			Clay								
Yellow	Sandy		•	oam				*				
Orange	Gravely		9	Sand		١.						
Red Brown	Stony		G	Bravel								
Øark			Sali	ine Mud								
Black						ľ						
Mottled						<u> </u>	•			·		
Altitude: 9.3 Landform: Table 24 CORVEG landform situation codes Landform situation Code	m Slope:	Code	ent	Table 25 CORV	/EG typ	•••••			 		W; W; N	 1M
PLAIN COUL	HILLS, MOUNTAINS, TABLELANDS	Code	1	Slope class								
Not otherwise specified, flat gentle siopes, undulating terrain	Slope or hill not specified	F		Class	LE Leyel	VG Very	GE Gentiy	MO Moderately	ST Steep	VS Very	PR Precipitous	
Downs, open downs, rolling downs, ashy downs, pebbly downs	Cliff (steep rocky faces), rocky ledge, rocky outcrop, scarp, crack in rock,	L		Percentage	<1	gently enclined	inclined 3_10	inclined 10–32	32–56	steep 56-100	100	
	crevices			Degrees (rounded to	ō	1-2	3-6	7–18	19-29	30-45	>45	
Alluvial plain or flat, alluvium, flood plain B	Coastal rocky headland	N	<u> </u>	nearest whole number)								
Inland diey can, salt flat or pan (inland) U Tidal flat, salt flat (coastal) V	Top, crest of mountain or ridge Jump-up, mesa, tableland, plateau	Q C	1	Relief class			Erosional la	ndform patte	em	•		
STREAMS	DUNE			M Very high >300 m (about	-	-		RM Rolling	SM Steep	VM ∀ery	PM Precipitous	
Lakes, banks of lake, river, stream, water course, levees + permanent water	Fossi' coestal dune, high dune	S		500 m)				mountains	mountains	steep mountains		٠.
Gully, drainage line, ravine gerge, outwash— – intermittently wet	Unspecified coastal dune, beach dune, recent coastal dune, low dune, coastal	R	1.	H High 90 300 m	-		UH Undulating hilis	RH Rolling hills	SH Steep hills	VH Very steep hills	PH Precipitous hills	
Bed of channel—distributaries of inland E streams, beds + intermittently flooded	sandhiil Inland dune, inland sandhill	+	1	(about 150 m)								
		<u> </u>	-	90 m (about 50 m)	_	_	UL Undulating low hills	RL Rolling low hits	SL Steep low hills	VL Very steep low hills	B Bedlands	
	WATER Freshwater lake, lagoon, spring, stream	x		R Very low 9- 30 m (about 15 m)	-	GR Gently undulating	UR Undulating rises	RR Rolling	SR Steep rises	B Badlands	Badiands	
	Freshwater swamp, marsh, soak, seepage area	W] .	P Extremely	LP /	rises GP	UP	rises RP	8	6	Б	
	Giga: meion hole, smkhole Saltwater, sea, saltwater swamp	Z Y	1	low <9 m)	Level piair	Gentity undulating plain	Undulating plain	Rolling plain	badlands	Badlends	Badlands .	
<u>Disturbance</u> Fire scars:								-			· %	
Feral animal:											%	•
Weeds:		••••										
											/0	
Other					• • • • •	• • • • • • •		• • • • • • • • • • • • • • • • • • • •		•••••	%	•
Health: Pristine / Excelle	nt / Very Good / Good	/ Ave	erage	/ Degrade	ed /	Comple	tely Deg	raded (a	lmost w	ithout na	atives)	
Special significance				٠								
Cultural:					• • • •		• • • • • • • • • • • • • • • • • • • •				,	
Recreational:												
Conservation:												
Commercial:												
Other Notes:												
*******************************	•											
												••
					• • • • •		· · · · · · · · ·	• • • • • • • • •		• • • • • • • •		•••

Width of community: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Width of total remnant: <35m wide; 35-75m; 75-150m; 150-300m; >300; not linear Total community area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha Total remnant area: Does not extend beyond site; <1ha; 1-5ha; 5-20ha; 20-50ha; >50ha

50m X 10m Plot Information

Canopy Stratum Form: Tree; Shrub; Herb; Grass; Aquatic

Stratum	Median Height (m)	Visual Cover Est (%)	Other Structural Notes
Emergent			-> 95% grass cover
Canopy	20m	(0%	
Mid			-> 5% bare ground.
Ground	0.5m	41%	

All woody species present within 50m x 10m plot (plus dominant and threatened non-woody species) Rel. Form Dom. T3 15m TREE 20m D TREE 15m TREE 20m TREE O/F Pultenea villosa SHRUB OrSM Acacia Ulicifolia 0.5m SHRUB within KEITH - REGROWTH

Species annotations: S = Specimen Collected; * = Exotic Species; ** = Declared Species; + = Outside but adjoining 50m x 10m plot Height categories: E = Emergent; T1 = Tree 1 stratum, T2 = Tree 2, T3 = Tree 3, S1 = Shrub 1 stratum, S2 = Shrub 2, G = Ground stratum Form; V = Vine; E = Epiphyte; A = Aquatic; Seed = Seedling; Sap = Sapling; Ab = Abundance within Stratum (D = dominant; A = Abundant; F = Frequent; O = Occasional; R = Rare)



Appendix B

Habitat Assessment Data Sheets



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HABITAT ASSE	ESSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Lucas Energy	DATE 29-8-08
SITE NO. 2001 LOCATION Large Remnant 1	NAME LdG/DR
AMG 5 6 H EASTING 0 4 0 3 6	26 NORTHING 6 4 4 9 2 1 0
DISTANCE and DIRECTION from TOWN: SITE IS SEM km (s) NE	
	Aust (84/66)
GENERAL	
Remnant trees Regrowth Plantation	VEGETATION STRUCTURE: OVERSTORY Tree canopy cover (trees taller that 3 m):
☑ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☑ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	Are trees mostly? Two or three species
Habitat type open Eucolypt forest	more than three species exotic
VEG FA LANDFORM PLA	Species: E. propingua D. E. carnea D
soil silty loam	E. siderophyloia0
LANDSCAPE	Average height of overstory?
Shape of patch?	☐ 3-5 m ☐ 5-10 m ☑ 10-15 m ☐ > 15 m Are the trees?
☑ Circular / square ☐ Irregular ☐ Strip <50 m	Even-aged (Trees mostly the same age or size)
Strip >50 m	Multi-aged (Trees of varing size or age)
Strip details:	Are there obvious signs of dieback in the tree canopy? None Some dieback Extensive dieback
☐ Windbreak ☐ Other	None ✓ Some dieback ☐ Extensive dieback
Width Area of full patch that contains 1 ha area:	VEGETATION STRUCTURE: UNDERSTORY
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m): ☐ Absent ☐ Scattered ☐ Common ☐ Abundant
☑ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	☑ single shrub species Are shrubs mostly?
of vegetation? ☐ YES ☐ NO	☐ two or three species ☐ native
	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Exacarpus cupressiformas
☐ A- Isolated ☐ B-Semi isolated	Low shrub cover (0.5,m – 2 m):
☐ C-Not isolated ☐ D-Continuous tree / shrub	☐ Absent ☐ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	if shrubs present:
6	Are shrubs mostly? ☑ two or three species ☑ native
	more than three species exotic
	Species: Comos permum sp. Acacia uli Cifolia Pultenea sp. Dominant ground cover within this 1 ha area:
200 m	☐ Tussocks ☐ Hummocks ☐ Continuous grass / herbs
-	Low Heath Weeds Bare dirt / rocks / litter
Is this 1 ha area on a: ☐ Flat ☐ Ridge ☐ Gully ☐ Slope	
If slope, give aspect over 20 m	LAND USE Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☐ Cattle
₩ ←	☐ Crops Crop type
SW SE	Other Other remnant patch.



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Scattered (1-5) □ Common (6-10) **Abundant** □ (>10) ☑ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? ☐ Scattered (1-10) 回^{©ommon} (10-20) □ Absent (0) **Abundant** (> 20) Fallen trees or branches present >50 cm diameter? Scattered (1-5) □ Common (6-10) Abundant □ Absent (0) □ (>10) Leaf litter? নি Patchy Absent ☐ Sparse Dense Mistletoe within this 1 ha area? M Absent ☐ Scattered ☐ Common Abundant **ROCKS** Outgrops within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? **☑** Absent Scattered Common ☐ Abundant Surface rocks of > 30 cm diameter? Absent Scattered Common ■ Abundant Cliffs and overhangs within this 1 ha area? ✓ Absent ☐ Scattered ☐ Common Abundant If present, are they mostly? ☐ Sandstone ☐ Granite ■ Basalt ☐ Karst ☐ Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent 🗹 Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Small birds Average Good Excellent Absent Poor OTHER HABITAT QUALITY ASPECTS: no large hollow bearing trees. Stumps indicating historical logging

WETLANDS Wetlands present? YES NO
TYPE OF WETLAND:
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp
INLAND WETLAND: Creek Dry Flowing River Floodplain, river flat Small billabong, pools (<8 ha) Freshwater lake (>8 ha) Shrubby swamp Wooded swamp Gilgai Claypan
☐ Ephemeral Marsh / swamp with emergent veg
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field
AREA OF WETLAND: <pre></pre>
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest
Dead or living trees in the water (partly submerged) for roosting and nesting habitat
Fencing to exclude grazing stock from direct access to the waters edge
Dense tree and / or shrub cover close to the edge of the water
ADDITIONAL NOTES:
remnant patch surrounded by cleared grazing land.
Photo: 101-0236 (kaala scratches) -101-0237 (facing SE)
Grey gums w. recent + historical scratches 4x50m walked - 18 trees noted.

2 of 21 HABITAT ASSESSMENT FOR 1 ha SEARCH AREA 56066503 Lucas Energy 29-8-08 PROJEC[®] 2002 DR/LdG Large Remnant 2 SITE NO. EASTING 04 AMG NORTHING NE Stratfor DISTANCE and DIRECTION from TOWN: SITE IS (N. S. E. W.) OF IF YES, WHICH DATUM WAS USED? Aust (84/66) WGS 84 or GDA WAS GPS USED? YES NO GENERAL **VEGETATION STRUCTURE: OVERSTORY** Remnant trees Regrowth Plantation Tree canopy cover (trees taller that 3,m): Open ☐ Absent ☐ Sparse ☐ Dense Native grasses (trees / shrubs may be present) If trees present: Non-native grasses (trees / shrubs may be present) single tree species Are trees mostly? Improved pasture ☐ Other ☑ two or three species **™** native open Eucalyot ovest Habitat type more than three species exotic PLA ANDFORM RE VFG Species: E. moluccana E. carnea D E. siderophloia0 silty loam SOIL Average height of overstory? LANDSCAPE □ 5-10 m □ 10-15 m □ > 15 m ☐ 3-5 m Shape of patch? Are the trees? ☑ Circular / square ☐ Irregular Strip <50 m Even-aged (Trees mostly the same age or size) Strip >50 m Multi-aged (Trees of varing size or age) ☐ Creek / river ☐ Roadside Are there obvious signs of dieback in the tree canopy? Strip details: Some dieback ☐ Extensive dieback ■ Windbreak Other Width **VEGETATION STRUCTURE: UNDERSTORY** Area of full patch that contains 1 ha area: Tall understory shrub cover (>2 m): ☐ < 3 ha
</p> 3-10 ha 11-30 ha Absent Scattered Common □ Abundant **™** 31-100 ha 101-400 ha □ > 400 ha If shrubs present: ☑ single shrub species Are shrubs mostly? Is the 1 ha patch connected to other similar sized or larger patches of yegetation? two or three species **▼** native ☑ YES ☐ NO more than three species exotic Species: Exocarpus cupressiformas Position of this 1 ha search area relative to the surrounding tree / shrub cover? A- Isolated ☐ B-Semi isolated Low shrub cover (0,5 m - 2 m): D-Continuous tree / shrub C-Not is clated ☐ Absent Scattered Common ☐ Abundant Continuous tree/shrub cover Scattered trees Grassland If shrubs present: single shrub species Are shrubs mostly? ☑ two or three species native exotic more than three species Species: Acacia ulifolcia Comospermum Dominant ground cover within this 1 ha area: $200 \, \text{m}$ ☐ Tussocks ☐ Hummocks ☑ Continuous grass / herbs □Low Heath □ Weeds I√Í ₽≥

Is this 1 ha area on a:

[NW]

If slope, give aspect over 20 m

NE

SE

Flat Ridge Gully Slope dvainage lives

Degrees of slope over 20 m:

	- I weeds I bare	- The state of the
	LAND USE	
Used for? ☐ Mixed graz	zing Sheep	☐ Cattle
Crops	Crop type	
☑ Other	Other remnant	patch.



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Abundant ☐ Scattered (1-5) □ Absent (0) □ Common (6-10) (>10) dead I living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Absent (0) Scattered Common **Abundant** ☐ (1-10) ☑ ₍₁₀₋₂₀₎ □ (> 20) Fallen trees or branches present >50 cm diameter? Scattered (1-5) □ Common (6-10) Absent **Abundant** □ (>10) Leaf litter? □ Absent ☐ Patchy ☐ Dense Miștletoe within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? ☐ Scattered ☐ Common **✓** Absent ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common ☑ Absent ■ Abundant Cliffs and overhangs within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ■ Abundant If present, are they mostly? ■ Sandstone ☐ Granite ■ Basait ☐ Karst ☐ Other **CRACKING ÇLAY SOILS** ☐ YES ☑ NO HABITAT QUALITY FOR: Hollow dependent fauna ☐ Absent ☐ Poor ☑ Average ☐ Good ☐ Excellent Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☐ Poor ☑ Average ☐ Good ☐ Excellent Small birds ☐ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS: some historical thinning of trees. European Hare superb. Fairy Wrens

WETLANDS Wetlands present? YES NO				
TYPE OF WETLAND:				
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh				
☐ Tidal forest (e.g. mangrove) ☐ Lagoon ☐ Saline / brackish lake / swamp				
INLAND WETLAND: Creek Dry Flowing River Floodplain, river flat Small billabong, pools (<8 ha) Freshwater lake (>8 ha) Shrubby swamp Wooded swamp Gilgai Claypan				
☐ Ephemeral Marsh / swamp with emergent veg				
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Salt pond / field				
AREA OF WETLAND: <pre></pre>				
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest				
Dead or living trees in the water (partly submerged) for roosting and nesting habitat				
Fencing to exclude grazing stock from direct access to				
the waters edge Dense tree and / or shrub cover close to the edge of the water				
Additional Notes:				
remnant patch continuous w 2001 surrounded by cleared grazing land.				
Photo: 101-0238 (facing S)				
echidna diggings - noted within greater area				
Scat SO5				
scratches not noted on koala preferred hees (4x50m walked). Z002				

HABITAT ASSE	SSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Lucas Energy	DATE 29-8-08
SITE NO. ZOO3 LOCATION Avon R+ Dog Trap (Ck DR + LdG
AMG 5 6 H EASTING 0 4 0 1 9	48 NORTHING 6449280
DISTANCE and DIRECTION from TOWN: SITE IS 4km (s) NM	
WAS GPS USED? YES □ NO IF YES, WHICH DATUM WAS USED?	(N. S. E. W.) OF IN 17070 (state) Aust (84/66) WGS 84 or GDA ALTITUDE 108 M
GENERAL	VEGETATION STRUCTURE: OVERSTORY
Remnant trees Regrowth Plantation	Tree canopy cover (trees taller that 3 m):
☑ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense If trees present:
Non-native grasses (trees / shrubs may be present)	single tree species Are trees mostly?
Improved pasture Other	w two or three species
Habitat type riparian remnant	more than three species exotic
SOIL SILTY SAND	Species: Angophora subvelutina(2) Cassuarina cunninghamiana
	Average height of overstory? /
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m ☑ 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
☐ Strip >50 m	Multi-aged (Trees of varing size or age)
➡ Strip details: ☐ Creek / river ☐ Roadside	Are there obvious signs of dieback in the tree canopy?
☐ Windbreak ☐ Other	None ☑ Some dieback ☐ Extensive dieback
Width 30-40m	VEGETATION STRUCTURE: UNDERSTORY
Area of full patch that contains 1 ha area: ☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m):
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	☐ Absent ☑ Scattered ☐ Common ☐ Abundant If shrubs present:
	single shrub species Are shrubs mostly?
Is the 1 ha patch connected to other similar sized or larger patches of yegetation?	☐ two or three species ☐ native
☑ YES □ NO	☑ more than three species exotic ☑ exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Acacia irrorata @Solomon morisian Mel Calistemon sp. @Ligustrum sienens
A- Isolated B-Semi isolated	Low shrub cover (0.5 m – 2 m):
☐ C-Not isolated ☐ D-Continuous tree / shrub	☐ Absent ☑ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover : Scattered trees Grassland	If shrubs present:
● ⑧	Are shrubs mostly?
(A)	 ☑ two or three species ☑ more than three species ☑ exotic
	Species: Hymenanthera dentata
	Sdomon morisi anum Dominant ground cover within this 1 ha area:
200 m	Dominant ground cover within this 1 ha area: Tussocks Hummocks Continuous grass /-herbs
	□ Low Heath □ Weeds ☑ Bare dirt / recks / litter
Is this 1 ha area on a: ☑ Flat ☐ Ridge ☐ Gully ☑ Slope ⋈ ౚોలાબાડ્ય	
If slope, give aspect over 20 m	LAND USE Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☑ Cattle
₩ < ► €	☐ Crops Crop type
SW V SE	Other Other



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? ☐ Scattered (1-5) □ Common (6-10) Abundant □ Absent (0) ☐ dead ☑ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Scattered (1-10) /Common **Abundant** □ Absent (0) □ (> 20) ☑₍₁₀₋₂₀₎ Fallen trees or branches present >50 cm diameter? Absent (0) □ Scattered (1-5) □ Common (6-10) **Abundant** □ (>10) Leaf litter? **☑** Sparse ■ Absent ☐ Patchy ☐ Dense Miştletoe within this 1 ha area? Absent □ Scattered □ Common ■ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? □ Scattered □ Common ☐ Abundant Surface rocks of > 30 cm diameter? **☑** Absent ☐ Scattered ☐ Common ☐ Abundant Cliffs and overhangs within this 1 ha area? ☐ Absent ☐ Scattered ☐ Common ☐ Abundant If present, are they mostly? ☐ Granite ☐ Sandstone ■ Basalt ☐ Other **CRACKING ÇLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☑ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent / OTHER HABITAT QUALITY ASPECTS: heard frogs cattle access to water evident herbs/shrubs heavily grazed Magpies, cattle, egret, grey fantail, white bowed Robbit warmen? (photo: 101-0240) scrubw

HABITAT ASSESSMENT (cont.)

West AND			
WETLANDS Wetlands present? ☑ YES ☐ NO			
TYPE OF WETLAND:			
MARINE: Coral reef Rocky shore Beach (all)			
☐ Estuarine ☐ Tidal mudflat ☐ Tidal marsh			
☐ Tidal forest (e.g. mangrove) ☐ Lagoon			
Saline / brackish lake / swamp			
INLAND WETLAND: ☐ Creek ☐ Dry ☐ Flowing (just) ☐ River ☐ Floodplain, river flat			
☐ Small billabong , pools (<8 ha) ☐ Freshwater lake (>8 ha)			
☐ Shrubby swamp ☐ Wooded swamp			
☐ Gilgai ☐ Claypan			
☐ Ephemeral Marsh / swamp with emergent veg			
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field AREA OF WETLAND:			
☐ < 2 ha ☐ 2-8 ha ☐ 8-100 ha ☐ >100 ha ☐ >100 ha ☐ Fresh ☐ Brackish / saline ☐ Salty ☐ Salty ☐ Brackish / saline ☐ Salty			
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed			
☑ Islands for birds to roost and nest			
Dead or living trees in the water (partly submerged) for roosting and nesting habitat			
Fencing to exclude grazing stock from direct access to the waters edge			
Dense tree and / or shrub cover close to the edge of the water			
ADDITIONAL NOTES:			
erosion + exposed banks			
Photo: 101-0241 (facing N) 101-0242 (facings)			
viparian limited to main channel width - not extending into pasture			
some peach trees			
ren z 003			

eastern + crimson rosellas, noisy miners, grey butcherbird purple swamphen.

HLA 1 of 2/ HABITAT ASSE	ESSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 LUCAS Energy	DATE 30-8-08
SITE NO ZOO4 LOCATION KP27 Karuah River	gully (W) NAME DR/LdG
AMG 5 6 H EASTING 03 9 7 5 6	O NORTHING 6 4 2 4 6 9 9
DISTANCE and DIRECTION from TOWN: SITE IS 4 cm km (s) NN	
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED?	Aust (84/66) WGS 84 or GDA ALTITUDE 58 m
GENERAL	
Remnant trees Regrowth Plantation	VEGETATION STRUCTURE: OVERSTORY Tree canopy cover (trees taller that 3,m):
✓ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☑ Open ☐ Dense
☐ Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	Are trees mostly?
Habitat type Gully remnant	☐ two or three species ☐ native
RE VEG FW LANDFORM GUL	more than three species exotic
soil sandy clay	Species: E. carned E. siderophloia Alphitonia excelsa Melalenca styphelioides
SOIL	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m ☑ 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
☑ Strip >50 m	Multi-aged (Trees of varing size or age)
➡ Strip details: ☐ Creek / river ☐ Roadside	Are there obvious signs of dieback in the tree canopy?
☐ Windbreak ☐ Other Gully	None
Width 50m	VEGETATION STRUCTURE : UNDERSTORY
Area of full patch that contains 1 ha area:	Tall understory shrub cover (>2 m):
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha ☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	☐ Absent ☑ Scattered ☐ Common ☐ Abundant If shrubs present:
51-100 Ha	☐ single shrub species
Is the 1 ha patch connected to other similar sized or larger patches of yegetation?	Are shrubs mostly? ☐ two or three species
✓ YES □ NO	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: *Solanum mauritianum Senna acclemis Hibiscus heterophyllus Notelaeasp.
☐ A- Isolated ☐ B-Semi isolated	Low shrub cover (0.5 m – 2 m):
☐ C-Not isolated ☑ D-Continuous tree / shrub	☐ Absent ☐ Scattered ☑ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
. • B	single shrub species Are shrubs mostly?
	▼ two or three species □ native
	more than three species
	Species:xLantana camera
200 -	Dominant ground cover within this 1 ha area:
200 m.	☐ Tussocks ☐ Hummocks ☑ Continuous grass / herbs
Is this 1 ha area on a:	Low Heath Weeds Bare dirt / rocks / litter
☐ Flat ☐ Ridge ☑ Gully ☐ Slope If slope, give aspect over 20 m	LAND USE
Degrees of slope over 20 m:	Used for? Mixed grazing Sheep Cattle
	Crops Cattle
w V se 25° S	Crop type
SW V SE 23 5	Other Other remnant w. cattle N + S



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Scattered □ Abundant (>10) □ Absent (0) □ Common (6-10) ☐ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Scattered (1-10) □ Common (10-20) **Abundant** □ Absent (0) □ (> 20) Fallen trees or branches present >50 cm diameter? Absent (0) ☐ Scattered (1-5) □ Common (6-10) **Abundant** □ (>10) Leaf litter? **⊠** Sparse ☐ Absent ☐ Patchy □ Dense Miștletoe within this 1 ha area? **☑** Absent □ Scattered □ Common ■ Abundant **ROCKS** Outcrops within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10/30 cm diameter? ☑ Scattered ☐ Common ■ Abundant ☐ Absent limited to creek bed. Surface rocks of > 30 cm diameter? ☑ Absent ☐ Scattered ☐ Common ☐ Abundant Cliffs and overhangs within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common □ Abundant If present, are they mostly? ☐ Granite □ Sandstone ₩ 🔲 Basalt Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Average ☑ Good ☐ Excellent ☐ Absent ☐ Poor **OTHER HABITAT QUALITY ASPECTS:** grey fantail, bell bird, yellow thornbill, heard, brown cuckoo dove, kokabura swift bandicoot foraging pits (photo: 101-0246)

HABITAT ASSESSMENT (cont.)

TIABITAT AGGEGGIIERT (GGAL)			
WETLANDS Wetlands present? ☑ YES □ NO			
TYPE OF WETLAND:			
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon			
Saline / brackish lake / swamp			
INLAND WETLAND: but vegetated. Creek Dry Flowing			
☐ River ☐ Floodplain, river flat			
☐ Small billabong , pools (<8 ha) ☐ Freshwater lake (>8 ha)			
☐ Shrubby swamp ☐ Wooded swamp			
☐ Gilgai ☐ Claypan			
Ephemeral Marsh / swamp with emergent veg			
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field AREA OF WETLAND: <			
ADDITIONAL NOTES:			
Photo: facing W 101-0245 creek E of proposed alignment (Karnah I r presence of platypus advised by			
presence of potypus advised by			
land holder: HDD suggested vegetated gully w continuous groundout (lantana common + w. raspberry) connects ridge to w with creek to E. steep slopes w of Telstra cable			
sediment andral critical			

Will-used by Koala/ passum - no scats

HLA Sof 21 HABITAT ASSE	SSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Lucas Energy	DATE 30-8-08
SITE NO. 2005 LOCATION KP10 near reserve	ed sandrary NAME LOGIDR
AMG 5 6 H EASTING 03 9 8 6 9	8 NORTHING 6 4 4 0 4 4 0
	(N. S. E. W.) OF Stratford IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED?	☐ Aust (84/66) ☐ WGS 84 or GDA ALTITUDE
GENERAL	VEGETATION STRUCTURE : OVERSTORY
Remnant trees Regrowth Plantation	Tree canopy cover (trees taller that 3 m):
☑ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense
☐ Non-native grasses (trees / shrubs may be present)	If trees present: single tree species
☐ Improved pasture ☐ Other	Are trees mostly? ☐ two or three species ☐ native
Habitat type open encalypt forest	✓ more than three species □ exotic
REVEG_FA_LANDFORM_DDE	Species: Commbia citriodora O
soil Sandy silt	E. siderphioia O E. Carned Allocasuarina
	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m ☐ 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☑ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
Strip >50 m	Multi-aged (Trees of varing size or age)
➡ Strip details:	Are there obvious signs of dieback in the tree canopy?
☐ Windbreak ☐ Other	None
Width 40m	VEGETATION STRUCTURE : UNDERSTORY
Area of full patch that contains 1 ha area:	Tall understory shrub cover (>2 m):
☐ < 3 ha	☐ Absent ☑ Scattered ☐ Common ☐ Abundant If shrubs present:
31-100 Ha	☐ single shrub species
Is the 1 ha patch connected to other similar sized or larger patches of vegetation?	Are shrubs mostly? If two or three species
☑ YES □ NO	─────────────────────────────────────
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Melaleuca linarefolia A irrorata
☐ A- Isolated ☐ B-Semi isolated	Low shrub cover (0.5 m – 2 m):
☐ C-Not isolated ☐ D-Continuous tree / shrub	
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
▶ ®	single shrub species Are shrubs mostly?
	☑ two or three species ☑ native
	more than three species exotic
	Species: Bersavia Spinosa Acacia ulcifolia Leucopogon juni pernus Comospermum sp. Dominant ground cover within this 1 ha area:
	Dominant ground cover within this 1 ha area:
200 m.	☐ Tussocks ☐ Hummocks ☑ Continuous grass / herbs
Is this 1 ha area on a:	☐ Low Heath ☐ Weeds ☐ Bare dirt / rocks / litter
✓ Flat Ridge Gully ✓ Slope V. slight	LAND USE
If slope, give aspect over 20 m	Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☐ Cattle
W - 	Crop type
SW \$ SE	Other Other



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Common (6-10) □ Abundant (>10) □ Absent (0) □ Scattered (1-5) ☐ dead ☑ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? ☑ (10-20) □ Abundant (> 20) □ Absent (0) □ Scattered (1-10) Fallen trees or branches present >50 cm diameter? □ Abundant (>10) □ Absent (0) Scattered (1-5) □ Common (6-10) Leaf litter? Patchy ☐ Absent □ Sparse □ Dense Mistletoe within this 1 ha area? ✓ Absent ☐ Scattered ☐ Common ■ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? ■ Absent ■ Abundant Surface rocks of > 30 cm diameter? Absent ☐ Scattered ☐ Common ☐ Abundant Cliffs and overhangs within this 1 ha area? Absent ☐ Scattered ☐ Common ■ Abundant If present, are they mostly? **☑** Sandstone ☐ Granite ■ Basalt Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ✓ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ✓ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor Small birds ☐ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS: white winged chough, grey crowned babbler. noisy miner, gallah vabbit waren w 5-6 holes. Egala scratchings observed

TIABITAT AGGLOGISLINT (COILL)		
WETLANDS Wetlands present? YES NO		
TYPE OF WETLAND:		
MARINE: ☐ Coral reef ☐ Rocky shore ☐ Beach (all)		
☐ Estuarine ☐ Tidal mudflat ☐ Tidal marsh		
☐ Tidal forest (e.g. mangrove) ☐ Lagoon		
☐ Saline / brackish lake / swamp		
INLAND WETLAND: ☐ Creek ☐ Dry ☐ Flowing Sections. ☐ River ☐ Floodplain, river flat ☐ Small billabong, pools (<8 ha) ☐ Freshwater lake (>8 ha) ☐ Shrubby swamp ☐ Wooded swamp ☐ Gilgai ☐ Claypan		
Ephemeral Marsh / swamp with emergent veg		
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Salt pond / field		
AREA OF WETLAND: < 2 ha		
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed		
☐ Islands for birds to roost and nest		
Dead or living trees in the water (partly submerged) for roosting and nesting habitat		
Fencing to exclude grazing stock from direct access to the waters edge		
Dense tree and / or shrub cover close to the edge of the water		
ADDITIONAL NOTES:		
Photo: 101-0248 (facing W)		
Drainage line Eward w. cattle grazing throughout + cleared pasture N+S Reserved sandrage landed discult		
Reserved sanctuary located directly adjacent E		
Small powerline consider on fenceline. Displayed line not fenced off for cattle.		
banks undercut + evosion evident		
historic logging within remnant		

HLA 6 of 21 HABITAT ASSE	ESSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Lucas Energy	DATE 30-8-08
SITE NO. 2006 LOCATION KP14-4	NAME LAGIDR
AMG G 6 H EASTING 03 9 9 4 5	5 NORTHING 6 4 3 6 3 5 8
DISTANCE and DIRECTION from TOWN: SITE IS 10.0 km (s)	
	Aust (84/66) WGS 84 or GDA ALTITUDE
GENERAL	VEGETATION STRUCTURE: OVERSTORY
☑ Remnant trees ☐ Regrowth ☐ Plantation	Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense If trees present:
Non-native grasses (trees / shrubs may be present)	single tree species Are trees mostly?
Improved pasture Other	two or three species
Habitat type riparian remnant	☑ more than three species ☐ exotic
RE VEG MK LANDFORM STC	Species: Melaleuca sp. E. mdlucana
soil Sandy Clay	E. teriticorniso M. linearifoliuso Angophorao subvelutina
LANDSCAPE	Average height of overstory? ☐ 3-5 m ☐ 5-10 m ☐ 10-15 m ☐ > 15 m
Shape of patch?	Are the trees?
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Even-aged (Trees mostly the same age or size)
Strip >50 m	☑ Multi-aged (Trees of varing size or age)
Strip details:	Are there obvious signs of dieback in the tree canopy? None Some dieback Extensive dieback
☐ Windbreak ☐ Other	Thomas Good die pack
Width Area of full patch that contains 1 ha area:	VEGETATION STRUCTURE : UNDERSTORY
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m): ☐ Absent ☑ Scattered ☐ Common ☐ Abundant
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation? ☐ YES ☐ NO	✓ two or three species ✓ native
	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Gossia sp. Notelaea sp.
A- Isolated B-Semi isolated	Low shrub cover (0.5 m – 2 m):
☐ C-Not isolated ☐ D-Continuous tree / shrub	☐ Absent ☐ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present: ☑ single shrub species
® . **	Are shrubs mostly?
	☐ two or three species ☐ native ☐ more than three species ☐ exotic
	☐ more than three species ☐ exotic Species: ਿਰਿਤਨੇਕ ਤਿਰ
	·
200 m	Dominant ground cover within this 1 ha area: ☐ Tussocks ☐ Hummocks ☐ Continuous grass / herbs
	□ Low Heath □ Weeds □ Bare dirt / rocks / litter
Is this 1 ha area on a: Flat Ridge Gully Slope dvainage If slope, give aspect over 20 m Ridge Gully Slope dvainage	
If slope, give aspect over 20 m	LAND USE Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☐ Cattle
W < → E	☐ Crops Crop type
SW V SE	Other Other
<u> </u>	



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Scattered (1-5) □ Common (6-10) □ Absent (0) □ (>10) **Abundant** ☐ dead ☑ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Scattered (1-10) □ Abundant (> 20) Common (10-20) □ Absent (0) Fallen trees or branches present >50 cm diameter? □ Abundant (>10) ⊠ Absent (0) □ Scattered (1-5) □ Common (6-10) Leaf litter? Sparse ☐ Absent ☐ Patchy ☐ Dense Mistletoe within this 1 ha area? **☑** Absent ☐ Scattered ☐ Common ■ Abundant **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? ☐ Absent ☑ Scattered ☐ Common ■ Abundant limited to creek bed Surface rocks of > 30 cm diameter? Absent □ Scattered □ Common ☐ Abundant Cliffs and overhangs within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant If present, are they mostly? **☑** Sandstone ☐ Granite ☐ Basalt ☐ Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna **☑** Absent □ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna Average Good Excellent ☐ Absent ☐ Poor Small birds Average Good Excellent ☐ Absent ☐ Poor other Habitat Quality aspects: noisy friarbird crimson rosella hourd for heard from D) large Angophora subvelutina @ GPS 006 56H 0399972 6436342 L) important habitat to maintain (photo: 101-0251) (also sof onest bends >)

HARITAT ASSESSMENT (cont)

WETLANDS	
Wetlands present?	
TYPE OF WETLAND:	
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp	
INLAND WETLAND: □ Creek □ Dry □ Flowing ? poscibly pooled □ River □ Floodplain, river flat □ Small billabong, pools (<8 ha) □ Freshwater lake (>8 ha) □ Shrubby swamp □ Wooded swamp □ Gilgai □ Claypan □ Ephemeral Marsh / swamp with emergent veg	
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field AREA OF WETLAND;	
AREA OF WEILAND: ☐ < 2 ha	
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest	
Dead or living trees in the water (partly submerged) for roosting and nesting habitat	
Fencing to exclude grazing stock from direct access to the waters edge	
Dense tree and / or shrub cover close to the edge of the water	
ADDITIONAL NOTES:	
Enosion + exposed banks	
bends in channel E of survey site 3 with roots + bankcollapse evident's channel straight-preferred crossing directly E of powerline riparian vegetation generally limited to main channel width-little extension into pasture.	
Photo: 101-0250 (facing W)	

2006

HLA 11 of 21 HABITAT AS	SESSMENT FOR 1 ha SEARCH AREA
PROJECT S606503 Lucas Energy	DATE 31-8-08
SITE NO. Z007B LOCATION KP37 Black Car	mp Rd. NAME LdG DR
AMG 5 6 H EASTING 03 9 6 3	6414300
DISTANCE and DIRECTION from TOWN: SITE IS 7km km (s)	(N. S. E. W.) OF Strond Road. IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS US	SED? Aust (84/66) WGS 84 or GDA ALTITUDE 105 M
GENERAL	T
Remnant trees Regrowth Plantation	VEGETATION STRUCTURE: OVERSTORY Tree canopy cover (trees taller that 3 m):
✓ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present: ☐ single tree species
☐ Improved pasture ☐ Other	Are trees mostly? If two or three species
Habitat type open Eucalypt forest	more than three species exotic
VEG FA LANDFORM HSL	Species: E. Carnea
soil Sandy clay	Corymbia citriodora E. siderophyloia
	Average height of overstory?
LANDSCAPE Shape of patch?	□ 3-5 m □ 5-10 m □ 10-15 m □ > 15 m
☑ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
☐ Strip >50 m	Multi-aged (Trees of varing size or age)
➡ Strip details: ☐ Creek / river ☐ Roadside	Are there obvious signs of dieback in the tree canopy?
☐ Windbreak ☐ Other	None ☑ Some dieback ☐ Extensive dieback
Width	VEGETATION STRUCTURE : UNDERSTORY
Area of full patch that contains 1 ha area: ☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m):
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	☐ Absent ☑ Scattered ☐ Common ☐ Abundant If shrubs present:
	single shrub species Are shrubs mostly?
Is the 1 ha patch connected to other similar sized or larger patches of yegetation?	☑ two or three species ☑ native
☑ YES □ NO	☐ more than three species ☐ exotic
Position of this 1 ha search area relative to the surrounding tree /	Species: Mulaleuca stypholoides Bursaria spines
shrub cover? B-Semi isolated	Allocasuarina torrulosa Jacksonia scaparia
C-Not isolated D-Continuous tree / shrub	Low shrub cover (0.5 m − 2 m): ☐ Absent ☐ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
B 6. •.	single shrub species Are shrubs mostly?
(B)	☐ two or three species ☐ native
	✓ more than three species □ exotic
	Species: Bursana spinosa Leuropogon juniper
	Dominant ground cover within this 1 ha area:
200 m.	☐ Tussocks ☐ Hummocks ☐ Continuous grass / herbs
Is this 1 ha area on a:	☐ Low Heath ☐ Weeds ☐ Bare dirt / rocks / litter
☐ Flat ☐ Ridge ☐ Gully ☑ Slope	LAND USE
If slope, give aspect over 20 m	Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☐ Cattle
W \ E	☐ Crops Crop type
SW SE SSW	Other Other remnant patch.



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? ☐ Scattered (1-5) □ Common (6-10) □ Absent (0) Abundant ☑ (>10) ☐ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Abundant □ Scattered (1-10) □ Common (10-20) □ Absent (0) (> 20) Fallen trees or branches present >50 cm diameter? Scattered (1-5) □ Common (6-10) Abundant (>10) □ Absent (0) Leaf litter? **☑** Patchy ☐ Absent □ Sparse ☐ Dense Miştletoe within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? ☐ Absent ☑ Scattered ☐ Common ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Absent ☐ Abundant Cliffs and overhangs within this 1 ha area? ✓ Absent □ Scattered □ Common ☐ Abundant If present, are they mostly? **✓** Sandstone ☐ Granite ☐ Basalt ☐ Other **CRACKING ÇŁAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☐ Poor N Average ☐ Good ☐ Excellent Small birds ☐ Average ☐ Good ☑ Excellent ☐ Absent ☐ Poor **OTHER HABITAT QUALITY ASPECTS:** red necked wallaby on approach from N kookabura, magpie, swallow eastern yellow robin potaros diggings scratchings not evident (some old marks)

			iti (cont.)
Wetlands present? ☐ YES ☑ NO	WETLAN	NDS	
TYPE OF WETLA	ND:		
MARINE:			
Coral reef	Rocky sho	ге	☐ Beach (all)
☐ Estuarine	☐ Estuarine ☐ Tidal mudflat ☐ Tidal marsh		
☐ Tidal forest (e.g.	mangrove)		Lagoon
Saline / brackish	lake / swamp		
INLAND WETLAND:	_		
☐ Creek 📫 [Dry Flo	wing	
River		☐ Floor	dplain, river flat
☐ Small billabong ,	pools (<8 ha)	☐ Fres	hwater lake (>8 ha)
Shrubby swamp		☐ Woo	ded swamp
☐ Gilgai		☐ Clay	pan
☐ Ephemeral Mars	h / swamp with	n emerge	ent veg
ARTIFICIAL WETLAN	DS:		
Large dam, rese	rvoir (>8 ha)	☐ Smal	ll dam, pond, tank
☐ Irrigation channel, rice field ☐ Wastewater treatment			
Canal, drainage o	channel, ditch	☐ Salt p	oond / field
AREA OF WETLAND:			
-	-8 ha 🔲 8	8-100 ha	☐ >100 ha
■ Water mostly □ Fresh	Brackish / sali	ine	☐ Salty
FEATURES PRESENT	-		
☐ Broad, shallow, s		for birds	to feed
☐ Islands for birds to roost and nest			
Dead or living trees in the water (partly submerged) for roosting and nesting habitat			
Fencing to exclude grazing stock from direct access to the waters edge			
Dense tree and / or shrub cover close to the edge of the water			
ADDITIONAL NOTES:			
Raining - heavy at times.			

ADDITIONAL NOTES:
Raining - heavy at times.
photo: 101-0252 (facing W)
vegetation more mature W than E
proposed pipeline within wood reserve
large ironbarks + spotted gums present + preservation recommended (101-0254) area susceptible to enosion + gullying (101-0253)
area susceptible to enosion + gullying (101-0253)
of current mod reserveite No. 2007B where vegetation is more juvenile / disturbed
where vegetation is more juvenile /disturbed



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Abundant (>10) □ Scattered (1-5) □ Common (6-10) □ Absent (0) ☐ dead ☑ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? ☐ Scattered (1-10) Abundant (> 20) □ Absent (0) □ Common (10-20) Fallen trees or branches present >50 cm diameter? ☐ Scattered (1-5) □ Common (6-10) **Abundant** ☑ Absent □ (>10) Leaf litter? ■ Absent ☐ Patchy ☐ Dense Mistletoe within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ■ Abundant ROCKS Outcrops within this 1 ha area? ☑ Scattered ☐ Common ☐ Absent ■ Abundant Surface rocks of 10-30 cm diameter? ☐ Scattered ☐ Common ☐ Absent Surface rocks of > 30 cm diameter? ☑ Scattered ☐ Common ☐ Absent ■ Abundant Cliffs and overhangs within this 1 ha area? ☐ Scattered ☐ Common ☑ Absent ☐ Abundant If present, are they mostly? ■ Sandstone ☐ Granite ■ Bas alt ☐ Karst ☐ Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☐ Poor ☑ Average ☐ Good ☐ Excellent Rock dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Absent ☐ Poor ☐ Average ☑ Good ☐ Excellent OTHER HABITAT QUALITY ASPECTS: Lewings honeyeater Autwood duck, yellow robin, grey fantail, gallah access to NW bank+ E. teriticarnis not possible to search for scratchings likely platypus habitat

	WETLANDS Wetlands present?	
	YES NO	
	TYPE OF WETLAND:	
	MARINE:	
	☐ Coral reef ☐ Rocky shore ☐ Beach (all)	
	☐ Estuarine ☐ Tidal mudflat ☐ Tidal marsh —	
	☐ Tidal forest (e.g. mangrove) ☐ Lagoon	
	Saline / brackish lake / swamp	
	INLAND WETLAND:	
	☐ Creek ➡ ☐ Dry ☐ Flowing	
	✓ River ☐ Floodplain, river flat	
	☐ Small billabong , pools (<8 ha) ☐ Freshwater lake (>8 ha)	
	☐ Shrubby swamp ☐ Wooded swamp	
	Gilgai Claypan	
	☐ Ephemeral Marsh / swamp with emergent veg	
	ARTIFICIAL WETLANDS:	
	Large dam, reservoir (>8 ha) ☐ Small dam, pond, tank ☐ Irrigation channel, rice field ☐ Wastewater treatment	
☐ Canal, drainage channel, ditch ☐ Salt pond / field		
	- -	
	AREA OF WETLAND: ☐ < 2 ha	
	→ Water mostly	
	☐ Fresh ☐ Brackish / saline ☐ Salty	
	FEATURES PRESENT	
☐ Broad, shallow, swampy areas for birds to feed		
☐ Islands for birds to roost and nest		
Dead or living trees in the water (partly submerged) for roosting and nesting habitat		
Fencing to exclude grazing stock from direct access to the waters edge South (unlimown on NW)		
Dense tree and / or shrub cover close to the edge of the water		
Additional Notes:		
	high banks we exposed sections + evosion endent	
1	MILIANI SUMILIS IN CAMPAN SCHOOLS	

— water	
ADDITIONAL NOTES:	
high banks w. exposed sections + evosion evident large trees (ind. E-terificomis) within river channel + on upper banks	
suggestion to utilize HDD to reduce habitat disturbance a bank enosion/collapse	
photo: 101-0257 (facing NW) 101-0259 (facing NE)	
assessment conducted from SE side of river	
SITE NO. 2008 (W501)	

HLA HABITAT ASSE	ESSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Lucas Energy	DATE 31-8-08
SIL NO.	River crossing NAME DRILDG
AMG 5 6 H EASTING 08 9 7 4 1	NORTHING 6 4 2 6 4 1 5
DISTANCE and DIRECTION from TOWN: SITE IS 19.6 km (s)	(N. S. E. W.) OF Stratford. IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED?	Aust (84/66) WGS 84 or GDA ALTITUDE 60m
GENERAL	
Remnant trees Regrowth Plantation	VEGETATION STRUCTURE : OVERSTORY Tree canopy cover (trees taller that 3 m):
☐ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☑ Open ☐ Dense
☐ Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	single tree species Are trees mostly?
Habitat type riparian remnant	☑ two or three species ☑ native
RE VEG WK LANDFORM STC	more than three species exotic Species: E. teriticornis Cassuariam cunninghal
soil sandy day	Syzgium sp.
LANDOCADE	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m ☑ 10-15 m ☐ > 15 m Are the trees?
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Even-aged (Trees mostly the same age or size)
☐ Strip >50 m	☑ Multi-aged (Trees of varing size or age)
Strip details:	Are there obvious signs of dieback in the tree canopy?
☐ Windbreak ☐ Other	None
Width 45m	VEGETATION STRUCTURE: UNDERSTORY
Area of full patch that contains 1 ha area: ☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m): ☐ Absent ☐ Scattered ☐ Common ☐ Abundant
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation?	☐ two or three species ☑ native
☑ YES □ NO	✓ more than three species ✓ exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Tristaniopsis lauvina Melia Azedavad Laurel sp. Gossia sp. Melaleucasp.
A- Isolated B-Semi isolated	* Peach * Solanum mauritianum Low shrub cover (0.5 m - 2 m):
☐ C-Not isolated ☐ ☐ D-Continuous tree / shrub	☐ Absent ☑ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
● ⑤	✓ single shrub species Are shrubs mostly?
	two or three species native
	more than three species Species: Lingustrium sinense
	Species: Flydasialam Silerise
200 m	Dominant ground cover within this 1 ha area: Tussocks Hummocks Continuous grass / herbs
.1——	☐ Low Heath ☐ Weeds ☐ Bare dirt / rocks / litter
Is this 1 ha area on a: If Ridge	The same of the sa
If slope, give aspect over 20 m	LAND USE
Degrees of slope over 20 m:	Used for? ☐ Mixed grazing ☐ Sheep ☐ Cattle
	Crops
SW V SE	Crop type L
SW V SE	Other NovSeS



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? □ Absent (0) □ Scattered (1-5) □ Common (6-10) Abundant ☑ (>10) ☐ dead ☑ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Scattered (1-10) □ Common (10-20) □ Absent (0) ☑ (> 20) /Abundant Fallen trees or branches present >50 cm diameter? Scattered (1-5) □ Common (6-10) □ Abundant (>10) □ Absent (0) Leaf litter? **⊠** Sparse ☐ Absent ☐ Patchy ■ Dense Mistletoe within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common ■ Abundant Surface rocks of 10-30 cm diameter? ☑ Scattered ☐ Common ☐ Absent ■ Abundant Surface rocks of > 30 cm diameter? **☑** Absent Scattered ☐ Common ■ Abundant Cliffs and overhangs within this 1 ha area? ✓ Absent ☐ Scattered ☐ Common ☐ Abundant If present, are they mostly? ☐ Sandstone ☐ Granite ■ Basalt ☐ Karst ☐ Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☑ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS: *likely platypus habitat king pamot, horses.

IIABITAT AGGEGGINENT (CONG)		
WETLANDS Wetlands present? ☑ YES ☐ NO		
TYPE OF WETLAND:		
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp		
INLAND WETLAND: ☐ Creek		
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field AREA OF WETLAND: <		
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest Dead or living trees in the water (partly submerged) for roosting and nesting habitat Fencing to exclude grazing stock from direct access to the waters edge Dense tree and / or shrub cover close to the edge of the water		
ADDITIONAL NOTES:		
several large E.teriticornis in area suggestion to utilise HDD to reduce habitat disturbance + bank erosion assessment conducted from NE side of		

	Additional Notes:
asse phot	eval large E. teriticornis in area estion to utilise HDD to reduce abitat disturbance + bank erosi esment conducted from NE side to: 101-0264 (facing NW) to log placed (+ secured w. chain) across river (photo: 101-0265)
	2000

HLA 4 of 21 HABITAT ASS	ESSMENT FOR 1 ha SEARCH AREA
PROJECT 56066 503 Lucas Energy	DATE 1/9/08
SITE NO. Z010 LOCATION KP3.7 Buffer.	NAME L.G.D.R.
SITE NO.	13 / 1145498
AMG 6 6 # EASTING 9 7 3	NORTHING (19 1 19 1 19 1 19 1 19 1 19 1 19 1 1
	(N. S. E. W.) OF Stratford IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED	0? ☐ Aust (84/66) ☑ WGS 84 or GDA ALTITUDE 13/. 3 m
GENERAL	VEGETATION STRUCTURE: OVERSTORY
Remnant trees Regrowth Plantation	Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense If trees present:
Non-native grasses (trees / shrubs may be present)	single tree species Are trees mostly?
Improved pasture Other	two or three species native
Habitat type Open enealyst forost	☑ more than three species ☐ exotic
RE VEG Z W LANDFORM PLA	Species: F. maluccana () E. carnea/umbra (2)
SOIL loams day	E. sideraphoia ()
LANDSCAPE	Average height of overstory? 3-5 m 5-10 m 10-15 m 5 > 15 m
Shape of patch?	☐ 3-5 m ☐ 5-10 m ☐ 10-15 m
☑ Circular / square ☐ Irregular ☐ Strip <50 m	Even-aged (Trees mostly the same age or size)
Strip >50 m	☑ Multi-aged (Trees of varing size or age)
Strip details:	Are there obvious signs of dieback in the tree canopy? ☐ None ☑ Some dieback ☐ Extensive dieback
☐ Windbreak ☐ Other	Mone Some dieback Dictensive dieback
WidthArea of full patch that contains 1 ha area:	VEGETATION STRUCTURE: UNDERSTORY
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m): □ Absent ☑ Scattered □ Common □ Abundant
☑ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation?	☐ two or three species ☐ native
Ď YES □ NO	▼ more than three species
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Mel. Ap.
A- Isolated B-Semi isolated	
☐ C-Not isolated ☐ D-Continuous tree / shrub	Low shrub cover (0.5 m – 2 m): \(\bigcap \) Absent \(\bigcap \) Scattered \(\bigcap \) Common \(\bigcap \) Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
6	single shrub species Are shrubs mostly?
	☐ two or three species ☐ native
	more than three species exotic
	Species: Bunearia opinoza l'ulteraca
	Dominant ground cover within this 1 ha area:
200 m . D	☐ Tussocks ☐ Hummocks ☐ Continuous grass / herbs
Is this 1 ha area on a:	Low Heath Weeds Bare dirt / rocks / litter
☐ Flat ☐ Ridge ☐ Gully ☐ Slope If slope, give aspect over 20 m	LAND USE
Degrees of slope over 20 m:	Used for?
	☐ Mixed grazing ☐ Sheep ☐ Cattle
W	Crop type
SW V SE	Other Other



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Scattered (1-5) □ Common (6-10) □ Abundant (>10) □ Absent (0) dead living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Abundant (> 20) Scattered (1-10) □ Common (10-20) □ Absent (0) Fallen trees or branches present >50 cm diameter? □ Scattered (1-5) □ Common (6-10) ⊠ Absent (0) **Abundant** □ (>10) Leaf litter? ▼ Patchy □ Dense ■ Absent □ Sparse Mistletoe within this 1 ha area? □ Scattered □ Common ■ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common Absent ■ Abundant Surface rocks of 10-30 cm diameter? ☑Absent ☐ Scattered ☐ Common ■ Abundant Surface rocks of > 30 cm diameter? 🔼 Absent □ Scattered □ Common ☐ Abundant Cliffs and overhangs within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Absent If present, are they mostly? ☐ Granite □ Sandstone ■ Bas alt ☐ Other **CRACKING CLAY SOILS** ☐ YES ☐ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☐ Poor Average Good Excellent Small birds ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent OTHER HABITAT QUALITY ASPECTS: Eastern grey kangaroo White-throated treecreeper and Red-browned finch in greater area

TIABITAT A		1111 (00/11/)		
Wetlands present?	WETLANDS			
TYPE OF WETLANI	D:			
MARINE:	_	-		
	Rocky shore	☐ Beach (all)		
1 =	☐ Tidal mudflat	☐ Tidal marsh		
☐ Tidal forest (e.g. m		Lagoon		
Saline / brackish la	ake / swamp			
INLAND WETLAND: ☐ Creek ☐ ☐	Dry Flowing			
River	Floo	dplain, river flat		
Sm all billabong , po	ools (<8 ha) 🔲 Fres	shwater lake (>8 ha)		
Shrubby swamp	□ W oo	☐ Wooded swamp		
☐ Gilgai	☐ Clay	pan		
☐ Ephemeral Marsh	/ swamp with emerg	ent veg		
ARTIFICIAL WETLANDS		all dam, pond, tank		
☐ Irrigation channel,	_	tewater treatment		
☐ Canal, drainage cha				
AREA OF WETLAND:				
☐ < 2 ha ☐ 2-8	ha 🔲 8-100 ha	☐ >100 ha		
₩ Water mostly		_		
Fresh B	3rackish / saline	∐ Salty		
FEATURES PRESENT Broad, shallow, sw	ampy areas for birds	s to feed		
☐ Islands for birds to	roost and nest	·		
Dead or living trees in the water (partly submerged) for roosting and nesting habitat				
Fencing to exclude grazing stock from direct access to the waters edge				
Dense tree and / or shrub cover close to the edge of the water				
ADDITIONAL NOTES:				
Denatcher on few smooth-back trees.				
101-0266 photo South facing				
Ona cleared to the East where proposed				

Quatcher on few smooth-back trees.
101-0266 photo South fairing
One cleared to the East where proposed
pipe alignment is to be placed.
area logged historially, no big trees in the
ara,

HLA 7 of 21 HABITAT ASS	SESSMENT FOR 1 ha SEARCH AREA
PROJECT 56066503 Luias Ene	1/9/08
SITE NO. ZOII LOCATION KP 21	NAME L.G., D.R.
AMG 5 6 17 EASTING 3 9 8 4 6	2 2 NORTHING 6 4 30 1 4 7
DISTANCE and DIRECTION from TOWN: SITE IS 4.68 km (s)	SSW (N. S. E. W.) OF Wards River IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS US	ED? Aust (84/66) WGS 84 or GDA ALTITUDE 134m
GENERAL	VEGETATION STRUCTURE: OVERSTORY
☐ Remnant trees ☐ Regrowth ☐ Plantation	Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☑ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	Are trees mostly? ☐ two or three species ☐ native
Habitat type Epen Eucalyst forest	☐ more than three species ☐ exotic
RE VEG FW LANDFORM HSL	
SOIL LOAMY does	Species: E. propinga (1) E. punctata (2) E. siteraphlais (1) C. Cityodora (1)
	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m ☒ 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
☐ Strip >50 m	Multi-aged (Trees of varing size or age)
□ Creek / river □ Roadside	Are there obvious signs of dieback in the tree canopy?
Strip details: Windbreak Other	None Some dieback ☐ Extensive dieback
Width L	VEGETATION STRUCTURE : UNDERSTORY Tall understory shrub cover (>2 m):
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	☐ Absent ☑ Scattered ☐ Common ☐ Abundant
⊠ 31-100 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation? ☑ YES ☐ NO	
	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Jantana
A- Isolated B-Semi isolated	Low shrub cover (0.5 m - 2 m):
C-Not isolated D-Continuous tree / shrub	☐ Absent ☑ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present: single shrub species
6	Are shrubs mostly?
	<u> </u>
	Species: Jantera
	Dominant ground cover within this 1 ha area:
200 -	
200 m.	☐ Tussocks ☐ Hummocks ☒ Continuous grass / herbs
Is this 1 ha area on a:	Low Heath Weeds Bare dirt / rocks / litter
Flat Ridge Gully Slope	LAND USE
If slope, give aspect over 20 m	Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☑ Cattle
□ □ □ □ □ □ □ □ □ □	☐ Crops Crop type
SW SE	Other Other
	· ·



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Scattered (1-5) □ Common (6-10) □ Abundant (>10) □ Absent (0) dead 🔯 living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Scattered (1-10) □ Common (10-20) Abundant □ Absent (0) □ (> 20) Fallen trees or branches present >50 cm diameter? □ Scattered (1-5) □ Common (6-10) Abundant (>10) Absent 为员 Leaf litter? **M** Patchy ☐ Absent ■ Sparse ■ Dense Mistletoe within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common **⊠** Absent ■ Abundant Surface rocks of 10-30 cm diameter? Absent □ Scattered □ Common ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common **Absent** ☐ Abundant Cliffs and overhangs within this 1 ha area? ☐ Scattered ☐ Common Absent ☐ Abundant If present, are they mostly? ☐ Granite □ Sandstone ■ Basalt ☐ Other **CRACKING CLAY SOILS** ☐ YES 🖾 NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent 🔀 Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna X Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☐ Poor Average Good Excellent Small birds ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent **OTHER HABITAT QUALITY ASPECTS:** Kukabarra Little tree scratchings (not recent)

WETLANDS Wetlands present? YES NO				
TYPE OF WETLAND:				
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp				
INLAND WETLAND: □ Creek □ Dry □ Flowing □ River □ Floodplain, river flat □ Small billabong, pools (<8 ha) □ Freshwater lake (>8 ha) □ Shrubby swamp □ Wooded swamp □ Gilgai □ Claypan □ Ephemeral Marsh / swamp with emergent veg				
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field				
AREA OF WETLAND:				
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest				
Dead or living trees in the water (partly submerged) for roosting and nesting habitat				
Fencing to exclude grazing stock from direct access to the waters edge				
Dense tree and / or shrub cover close to the edge of the water				
Remnant forest at both side of powerline. Opprox 10m apace between powerline (West) and fourt. Ova historically logged with few large trees which should be kept. 101-0271 photo West				
SITE NO. ZOLL				

HLA 14 of 2/ HABITAT ASS	ESSMENT FOR 1 ha SEARCH AREA
PROJECT 56066503 Lucas Energes	DATE 1/9/08
SITE NO. ZO12 LOCATION KP49.5 Black C	amp Rd pinch. NAME L.G., D.R.
AMG 5 6 H EASTING 3 9 1 3 5	NORTHING 6 40 7 9 4 8
DISTANCE and DIRECTION from TOWN: SITE IS 12 km km (s)	(State)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED	ALTITUDE 53m
GENERAL	VEGETATION STRUCTURE: OVERSTORY
□ Remnant trees □ Regrowth □ Plantation	Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	Absent ☐ Sparse ☑ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	Are trees mostly?
Habitat type Open encolypt forest	翻 令 //
RE VEG FW LANDFORM PLA	Species: E. siderphbia () C. Mulacana ()
SOIL loamy	F. carnia / umbra () C. Citriodora ()
SULL	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m 🔀 10-15 m 🗔 > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
☐ Strip >50 m	Multi-aged (Trees of varing size or age)
Creek / river Roadside	Are there obvious signs of dieback in the tree canopy?
Strip details: Windbreak Other	None Some dieback ☐ Extensive dieback
Width	VEGETATION STRUCTURE : HAREPOTORY
Area of full patch that contains 1 ha area:	VEGETATION STRUCTURE : UNDERSTORY Tall understory shrub cover (>2 m):
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	☐ Absent ☐ Scattered ☒ Common ☐ Abundant
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches of vegetation?	Are shrubs mostly?
Of Vegetation? □XYES □ NO	
	Species: M. nodosa Comesperanum 4.
Position of this 1 ha search area relative to the surrounding tree / shrub cover? B-Semi isolated	acavia igrarate
☐ C-Not isolated ☐ D-Continuous tree / shrub	Low shrub cover (0.5 m – 2 m):
	☐ Absent ☐ Scattered ☐ Common ☐ Abundant If shrubs present:
Continuous tree/shrub cover Scattered trees Grassland	☐ single shrub species
• •	Are shrubs mostly? I two or three species
	✓ — — — — — — — — — — — — — — — — — — —
	Species: Ocaca Waighala
	Dominant ground cover within this 1 ha area:
200 m . D	☐ Tussocks ☐ Hummocks ☒ Continuous grass / herbs
	☐ Low Heath ☐ Weeds ☑ Bare dirt / rocks / litter
Is this 1 ha area on a: ☐ Flat ☐ Ridge ☐ Gully ☐ Slope	
If slope, give aspect over 20 m	LAND USE Used for?
Degrees of slope over 20 m:	Used for?
W ← ► E	□ Crops
	Crop type
	Other



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? □ Abundant (>10) □ Absent (0) Scattered (1-5) □ Common (6-10) ☐ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Scattered (1-10) □ Common (10-20) **Abundant** □ Absent (0) □ (> 20) Fallen trees or branches present >50 cm diameter? Absent (0) □ Scattered (1-5) □ Common (6-10) **Abundant** □ (>10) Leaf litter? □ Sparse Patchy Dense ■ Absent Mistletoe within this 1 ha area? **⊠**'Absent ☐ Scattered ☐ Common ■ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common Absent ☐ Abundant Cliffs and overhangs within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant If present, are they mostly? ☐ Granite □ Sandstone ■ Bas alt ☐ Other **CRACKING CLAY SOILS** ☐ YES 🔯 NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☒ Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna Absent □ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent ☐ Poor ☐ Good ☐ Excellent Small birds ☐ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor 3:28 OTHER HABITAT QUALITY ASPECTS: spotted trutte dove.

HABITAT ASSESSMENT (cont.)

		\ · · /		
Wetlands present? ☐ YES 📈 NO	WETLANDS			
TYPE OF WETLAN	ID:			
MARINE:	· .			
 	Rocky shore			
1=	☐ Tidal mudflat			
☐ Tidal forest (e.g. r☐ Saline / brackish l☐	☐ Lagoon			
INLAND WETLAND:				
☐ Creek □ □	Dry	ng		
River		Floodplain, river flat		
☐ Small billabong , p	oools (<8 ha)	Freshwater lake (>8 ha)		
Shrubby swamp	_	Wooded swamp		
Gilgai	_	Claypan		
Ephemeral Marsh / swamp with emergent veg				
ARTIFICIAL WETLAND Large dam, reser		Small dam, pond, tank		
☐ Irrigation channel	_	Wastewater treatment		
☐ Canal, drainage ch	nannel, ditch	Salt pond / field		
AREA OF WETLAND:				
☐ < 2 ha ☐ 2-8	3 ha 🔲 8-10	0 ha 🔲 >100 ha		
■ Water mostly ☐ Fresh ☐ □	Brackish / saline	☐ Salty		
_				
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed				
☐ Islands for birds t	o roost and nest			
Dead or living trees in the water (partly submerged) for roosting and nesting habitat				
Fencing to exclude grazing stock from direct access to the waters edge				
Dense tree and / or shrub cover close to the edge of the water				
ADDITIONAL NOTES:				
Remnant patch close to the creek.				
Opproximately 20 m from remnant patch to the creek, Some regrowth in between				
to the creek, Some regrowth in between that could be removed. Allow buffer between				
trench and creek.				

SITE NO. ZO12

HLA 12 of 21 HABITAT ASSE	SSMENT FOR 1 ha SEARCH AREA
PROJECT 56066503 Lucas Energes	DATE 2/9/08
SITE NO. 2013 BCR3 KP40 Block (Samp Road NAME L.G. D.R.
AMG 5 6 H EASTING 3 9 6 0 6	1 NORTHING 6 4 1 2 3 1 3
DISTANCE and DIRECTION from TOWN: SITE IS 10 km (s) 55	(N. S. E. W.) OF Stroud Road IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED?	☐ Aust (84/66) ☑ WGS 84 or GDA ALTITUDE 193.2m
GENERAL	
☐ Remnant trees ☐ Regrowth ☐ Plantation	VEGETATION STRUCTURE : OVERSTORY Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense
☐ Non-native grasses (trees / shrubs may be present)	If trees present: ☐ single tree species
☐ Improved pasture ☐ Other	Are trees mostly?
Habitat type Open encalyst forest	☐ two or three species ☑ native ☑ more than three species ☐ exotic
RE VEG FW LANDFORM HSL	Species: C. Citrus dora 0 E. propringua 0
soil Clay	E. cornes contra @ E. misseous ()
	Average height of overstory? A. torulussa
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m 🔀 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees? Even-aged (Trees mostly the same age or size)
Strip >50 m	■ Multi-aged (Trees of varing size or age)
Strip details:	Are there obvious signs of dieback in the tree canopy?
☐ Windbreak ☐ Other	None Some dieback Extensive dieback
Width	VEGETATION STRUCTURE: UNDERSTORY
Area of full patch that contains 1 ha area: ☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m):
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	☐ Absent ☐ Scattered ☐ Common ☐ Abundant If shrubs present:
	single shrub species Are shrubs mostly?
Is the 1 ha patch connected to other similar sized or larger patches of vegetation?	two or three species
YES □ NO	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: A, worth
□ A- Isolated □ B-Semi isolated	le proporis
☐ C-Not isolated ☐ D-Continuous tree / shrub	Low shrub cover (0.5 m − 2 m): Absent Scattered Common Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
D 6: •	single shrub species Are shrubs mostly?
	☑ two or three species ☑ native
	more than three species exotic
	Species: 0. ilicifolium
	Dominant ground cover within this 1 ha area:
200 m	Tussocks Hummocks Continuous grass / herbs
Is this 1 ha area on a:	Low Heath Weeds Bare dirt / rocks / litter
☐ Flat ☑ Ridge ☐ Gully ☐ Slope	LAND USE
If slope, give aspect over 20 m	Used for?
Degrees of slope over 20 m: 40~ 45°	☐ Mixed grazing ☐ Sheep ☐ Cattle
W ← F	Crop type
SW V SE	Other Other



	44	ITAT FEATU	RES	
HOLLOWS No. of hollows	and LOGS within 1 ha patc	h?		
□ Absent (0)	Scattered (1-5)	☑ Comm (6-10)	on	☐ Abundant (>10)
If present, are	they mostly?	dead d	livin	g
Fallen trees or	branches prese	nt 10-50 cm d	iameter	?
□ Absent (0)	Scattered (1-10)	⊠ (10-20)	on	Abundant (> 20)
Fallen trees or	branches preser	nt >50 cm dia	meter?	
□ Absent (0)	Scattered (1-5)	□ Comm (6-10)	on	☐ Abundant (>10)
Leaf litter?	☑ Sparse	Patchy		☐ Dense
Mistletoe withi	n this 1 ha area?	ı		
	☐ Scattered		on	Abundant
ROCKS				
Absent	n this 1 ha area?		on	Abundant
	of 10–30 cm dian ☑ Scattered		on	☐ Abundant
, , , , , , , , , , , , , , , , , , , ,	of > 30 cm diame		on	☐ Abundant
1	hangs within this			☐ Abundant
If present, are t	they mostly?			:
Sandstone		☐ Gr	anite	
☐ Basalt		☐ Kar	rst	
Other				
CRACKING CLAY SOILS YES NO				
11-0		QUALITY FO	R:	
Hollow depend	ent fauna ☑ Poor A	verage	Good	☐ Excellent
Rock depender		verage 🔲	Good	☐ Excellent
Log dependent		verage 🔲	Good	☐ Excellent
Small birds	Poor A	verage 🏻	Good	■ Excellent
OTHER HABITA	AT QUALITY ASP	ECTS:		
				, and a second

WETLANDS			
Wetlands present?			
TYPE OF WETLAND:			
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp			
INLAND WETLAND: ☐ Creek ☐ Dry ☐ Flowing ☐ River ☐ Floodplain, river flat ☐ Small billabong, pools (<8 ha) ☐ Freshwater lake (>8 ha) ☐ Shrubby swamp ☐ Wooded swamp ☐ Gilgai ☐ Claypan ☐ Ephemeral Marsh / swamp with emergent veg			
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field AREA OF WETLAND: <			
Water mostly ☐ Fresh ☐ Brackish / saline ☐ Salty			
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest Dead or living trees in the water (partly submerged) for roosting and nesting habitat			
Fencing to exclude grazing stock from direct access to			
the waters edge Dense tree and / or shrub cover close to the edge of the water			
. Additional Notes:			
Historical togging. Vegetation is consistent over the whole area. Slope gets steeper towards the gully Photo 101-0275 SWaspect			
(BCR3) SITE NO. 2013			

	SESSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Leicas es	nergy DATE 2/9/08
SITE NO. ZO14 BCRO KP41 Black	Camp Road NAME L.G., D.R.
AMG 5 6 H EASTING 3 9 5 2 0	NORTHING 6 4 1 1 5 7 9
DISTANCE and DIRECTION from TOWN: SITE IS	(N. S. E. W.) OF Stroud Road IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USE	ALTITUDE 79m
GENERAL	VEGETATION STRUCTURE : OVERSTORY
Remnant trees 🔀 Regrowth 🔲 Plantation	Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☐ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present:
Improved pasture Other	Are trees mostly?
Habitat type Open encalyed forest	
SAX	more than three species exotic
SOIL Sandy Class	Species: E. proping da (Hay gum) E. mallucara E. microcorred (Tabr wood) E. territicornia
	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m ☐ 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees?
T Strip >50 m	Even-aged (Trees mostly the same age or size)
Crook / river Pendeide	Multi-aged (Trees of varing size or age) Are there obvious signs of dieback in the tree canopy?
Strip details:	None
☐ Windbreak ☐ Other	
Width	VEGETATION STRUCTURE : UNDERSTORY
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha	Tall understory shrub cover (>2 m): ☐ Absent ☑ Scattered ☐ Common ☐ Abundant
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation?	two or three species
☑ YES ☐ NO	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	A. excelsa Diaspyria australia
A- Isolated B-Semi isolated	Low shrub cover (0.5 m – 2 m):
☐ C-Not isolated ☐ D-Continuous tree / shrub	☐ Absent ☑ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
D 6 •	single shrub species Are shrubs mostly?
	☐ two or three species ☐ native
	Species: Melastoma melabathricum
	Dominant ground cover within this 1 ha area:
200 m. D	Tussocks Hummocks Continuous grass / herbs
. ——	□ Low Heath □ Weeds ☑ Bare dirt / rocks / litter
Is this 1 ha area on a: ☑ Flat ☐ Ridge ☑ Gully ☐ Slope	
If slope, give aspect over 20 m	Land Use
Degrees of slope over 20 m:	Used for?
IN A NE	☐ Mixed grazing ☐ Sheep ☐ Cattle ☐ Crops ☐ Cattle
	Crop type
SW SE	Other Other



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? ☐ Scattered (1-5) □ Absent (0) Common (6-10) □ Abundant (>10) ☐ dead ☒ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? ☐ Scattered (1-10) Abundant (> 20) □ Common (10-20) □ Absent (0) Fallen trees or branches present >50 cm diameter? Scattered (1-5) ☐ Common (6-10) □ Abundant (>10) □ Absent (0) Leaf litter? ☐ Patchy ☐ Absent ☐ Sparse ☑ Dense Mistletoe within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common ■ Abundant Surface rocks of 10-30 cm diameter? X Scattered ☐ Common ☐ Absent ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common ■ Abundant Cliffs and overhangs within this 1 ha area? Absent ☐ Scattered ☐ Common Abundant If present, are they mostly? **Sandstone** ☐ Granite ■ Basalt Other **CRACKING CLAY SOILS** ☐ YES ☐ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☐ Poor ✓ Average ☐ Good ☐ Excellent Rock dependent fauna ☐ Average ☐ Good ☐ Excellent Absent Poor Log dependent fauna ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent OTHER HABITAT QUALITY ASPECTS: Olmost the beginning of a corridor. Que of high importance for faure travel and migration. migration. reducted wallaby, grey crowned babbler

HABITAT ASSESSMENT (cont.)

W			
WETLAN Wetlands present? YES NO	ມຮ		
TYPE OF WETLAND:			
MARINE: Coral reef Rocky show	re 🔲 Beach (all)		
☐ Estuarine ☐ Tidal mudf	lat 🔲 Tidal marsh		
☐ Tidal forest (e.g. mangrove)	☐ Lagoon		
Saline / brackish lake / swamp	•		
INLAND WETLAND:			
☑ Creek 📦 🗖 Dry 🗵 Flo	wing		
River	☐ Floodplain, river flat		
Small billabong , pools (<8 ha)	Freshwater lake (>8 ha)		
☐ Shrubby swamp	☐ Wooded swamp		
☐ Gilgai	☐ Claypan		
Ephemeral Marsh / swamp with	emergent veg		
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Irrigation channel, rice field Canal, drainage channel, ditch AREA OF WETLAND:	☐ Wastewater treatment		
FEATURES PRESENT Small crack Broad, shallow, swampy areas for birds to feed			
☐ Islands for birds to roost and nest			
Dead or living trees in the water (partly submerged) for roosting and nesting habitat			
Fencing to exclude grazing stock from direct access to the waters edge			
Dense tree and / or shrub cover close to the edge of the water			
ADDITIONAL NOTES:			
Remnant patch 5-10 m from creek and			
powerlines. Item short bank, pipeline best			
suited on left of road from 5-N view.			
Semi-cleared forest on left.			
Siratous on gray guons.			
Phis 101-0267 NE.	ruk side.		

(6CRO) SITE NO. 2014B

HABITAT ASSE	SSMENT FOR 1 ha SEARCH AREA
PROJECT S6066 503 Julas Ena	129 DATE 3/9/08
SITE NO. 2015 LOCATION KP56.5 (Smith)	NAME LG, DR
AMG 5 6 H EASTING 3 9 0 3 9 6	4 NORTHING 6 4 0 1 4 3 5
DISTANCE and DIRECTION from TOWN: SITE IS 9km km (s)	Clarena Toma NSCI
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED?	
WAS GPS USED? — IF YES, WHICH DATUM WAS USED? -	ALTITUDE 17 m
GENERAL	VEGETATION STRUCTURE : OVERSTORY
Remnant trees Regrowth Plantation	Tree canopy cover (trees taller that 3 m): ☐ Absent ☐ Sparse ☐ Open ☐ Dense
Native grasses (trees / shrubs may be present)	If trees present:
Non-native grasses (trees / shrubs may be present)	single tree species Are trees mostly?
☐ Improved pasture ☐ Other	₩ two or three species native
Habitat type	more than three species exotic
RE VEG M (LANDFORM QUI	Species: Cossia sp. Syrygium sp.
SOIL May DUT	hipiseus sp.
LANDSCAPE	Average height of overstory? 3-5 m 5-10 m 10-15 m > 15 m
Shape of patch?	Are the trees?
☐ Circular / square ☐ Irregular ☒ Strip <50 m	Even-aged (Trees mostly the same age or size)
Strip >50 m	Multi-aged (Trees of varing size or age)
Strip details: Creek / river Roadside	Are there obvious signs of dieback in the tree canopy? None Some dieback Extensive dieback
☐ Windbreak ☐ Other	
Width 50	VEGETATION STRUCTURE : UNDERSTORY Tall understory shrub cover (>2 m):
☐ < 3 ha 🔀 3-10 ha ☐ 11-30 ha	Absent Scattered Common Abundant
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation? ★ YES □ NO	two or three species
	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Saplings Melotis of.
A- Isolated B-Semi isolated	Low shrub cover (0.5 m – 2 m):
C-Not isolated D-Continuous tree / shrub	☐ Absent ☐ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover	If shrubs present: ☐ single shrub species
● ⑤	Are shrubs mostly?
	☐ more than three species ☐ exotic Species: Natiley Rukes an
	Species: Molleys Rubos ap. Pihosporium Russing spinesa
200 m	Dominant ground cover within this 1 ha area:
200 m	☐ Tussocks ☐ Hummocks ☐ Continuous grass / herbs☐ Low Heath ☐ Weeds ☐ Bare dirt / rocks / litter
Is this 1 ha area on a:	Low Heath Weeds Bare dirt / rocks / litter
☐ Flat ☐ Ridge 【 Gully ☐ Slope If slope, give aspect over 20 m	LAND USE
Degrees of slope over 20 m:	Used for?
	☐ Mixed grazing ☐ Sheep ☐ Cattle
	Crop type
Sw V SE	Other Other



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch?			
□ Absent □ Scattered □ Common □ Abundant (>10)			
If present, are they mostly?			
Fallen trees or branches present 10-50 cm diameter?			
□ Absent □ Scattered □ Common □ Abundant (> 20)			
Fallen trees or branches present >50 cm diameter?			
Absent Common Common (>10)			
Leaf litter? ☐ Absent ☐ Sparse ☐ Patchy ☐ Dense			
Mistletoe within this 1 ha area? ☑ Absent ☐ Scattered ☐ Common ☐ Abundant			
ROCKS Outcrops within this 1 ha area? Absent Scattered Common Abundant			
Surface rocks of 10–30 cm diameter? Absent Scattered Common Abundant			
Surface rocks of > 30 cm diameter? ☐ Absent			
Cliffs and overhangs within this 1 ha area? Absent Scattered Common Abundant			
If present, are they mostly? ☑ Sandstone ☐ Granite			
Basalt			
☐ Other			
CRACKING CLAY SOILS YES X NO			
HABITAT QUALITY FOR:			
Hollow dependent fauna			
☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent			
Rock dependent fauna ☐ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent			
Log dependent fauna ☐ Absent ☑ Poor ☐ Average ☐ Good ☐ Excellent			
Small birds ☐ Absent ☐ Poor ☐ Average ☒ Good ☒ Excellent			
OTHER HABITAT QUALITY ASPECTS:			
2 Rafbite			

HABITAT ASSESSMENT (cont.)

	WETLANDS	,	
Wetlands present? ☑ YES □ NO	WEILANDS	,	
TYPE OF WETLAN	D:		
MARINE: Coral reef	☐ Rocky shore	☐ Be ach (all)	
☐ Estuarine	Tidal mudflat	☐ Tidal marsh	
Tidal forest (e.g. n	nangrove)	Lagoon	
Saline / brackish la	ake / swamp		
INLAND WETLAND: ☐ Creek			
Small billabong , p	ools (<8 ha)	shwater lake (>8 ha)	
Shrubby swamp		oded swamp	
Gilgai	Cla		
Ephemeral Marsh	swamp with emer	gent veg	
ARTIFICIAL WETLANDS Large dam, reserv Irrigation channel, Canal, drainage ch	rice field Wa	stewater treatment	
AREA OF WETLAND:	ha 🔲 8-100 ha	a	
1 <u> </u>	Brackish / saline	☐ Salty	
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest			
Dead or living trees in the water (partly submerged) for roosting and nesting habitat			
Fencing to exclude grazing stock from direct access to the waters edge			
Dense tree and / or shrub cover close to the edge of the water			
Additional Notes: Sully with cattle pastures at both sides. Recognized consider in the area. Photo: 101-0281 + 101-0282 (facing SE)			

SITE NO 2015

HLA 16 of 21 HABITAT ASS	ESSMENT FOR 1 ha SEARCH AREA
PROJECT S6066503 Lucas	Energy DATE 3/9/08
SITE NO. 2016 LOCATION KP61.5 Re	serve. NAME L.G, D.R.
AMG 5 6 H EASTING 3 8 9 9 0	9 NORTHING 4 3 9 6 4 4 7
	SE (N. S. E. W.) OF Dungog IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED	17 ☐ Aust (84/66) WGS 84 of GDA ALTITUDE 49 m
GENERAL	
Remnant trees Regrowth Plantation	VEGETATION STRUCTURE: OVERSTORY Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☒ Open ☐ Dense
☐ Non-native grasses (trees / shrubs may be present)	If trees present: single tree species
☐ Improved pasture ☐ Other	Are trees mostly? The two or three species and the trees mostly?
Habitat type Open Eucalypt forest	more than three species exotic
RE VEG FW LANDFORM PL A	Species: Curimbia citrisdora
Soil Sandy loam	E. sideaphoria C E. umbra C
LANDSCAPE	Average height of overstory? ☐ 3-5 m ☐ 5-10 m ☐ 10-15 m ☐ > 15 m
Shape of patch?	Are the trees?
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Even-aged (Trees mostly the same age or size)
Strip >50 m	Multi-aged (Trees of varing size or age)
Strip details:	Are there obvious signs of dieback in the tree canopy? None Some dieback Extensive dieback
WidthArea of full patch that contains 1 ha area:	VEGETATION STRUCTURE : UNDERSTORY Tall understory shrub cover (>2 m):
☐ < 3 ha ☐ 3-10 ha ☐ 11-30 ha ☐	☐ Absent ☐ Scattered ☐ Common ☒ Abundant
[☑ 31-100 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches of vegetation?	Are shrubs mostly? If two or three species
Ø(YES □ NO	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree /	Species: Melaluca nodosa Barcarius spinosa
shrub cover? A- Isolated B-Semi isolated	Leptospermum og.
☐ C-Not isolated ☐ D-Continuous tree / shrub	Low shrub cover (0.5 m − 2 m): Absent Scattered Common Abundant
Continuous tree/shrub cover Scattered trees Grassland	☐ Absent ☐ Scattered ☐ Common ☐ Abundant If shrubs present:
6	single shrub species Are shrubs mostly?
	two or three species native
	more than three species exotic
	Species: Ocacia ulcifola Leucapogam
200 m	Dominant ground cover within this 1 ha area:
200 m	Image: State of the continuous of
Is this 1 ha area on a: ☐ Flat ☐ Ridge ☐ Gully ☐ Slope	Low Heath Weeds Bare dirt / rocks / litter
If slope, give aspect over 20 m	LAND USE
Degrees of slope over 20 m:	Used for? ☐ Mixed grazing ☐ Sheep ☐ Cattle
	☐ Crops Crop type
SW V SE	Other Remnant Conservation



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? ⊠ Absent (0) □ Scattered (1-5) □ Common (6-10) **Abundant** □ (>10) ☐ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Scattered (1-10) □ Common (10-20) **Abundant** Absent (0) □ (> 20) Fallen trees or branches present >50 cm diameter? ⊠ Absent (0) □ Scattered (1-5) □ Common (6-10) **Abundant** □ (>10) Leaf litter? ■ Absent ☐ Sparse **Patchy** □ Dense Mistletoe within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? Absent □ Scattered □ Common ■ Abundant Surface rocks of > 30 cm diameter? Absent ☐ Scattered ☐ Common ■ Abundant Cliffs and overhangs within this 1 ha area? Absent □ Scattered □ Common ☐ Abundant If present, are they mostly? □ Sandstone ☐ Granite ■ Basalt ☐ Other **CRACKING CLAY SOILS** ☐ YES 🗹 NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent ☐ XPoor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna Absent Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS: young remnant forest

WETLANDS			
Wetlands present?			
TYPE OF WETLAND:			
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp			
INLAND WETLAND: ☐ Creek ☐ Dry ☐ Flowing ☐ River ☐ Floodplain, river flat ☐ Small billabong, pools (<8 ha) ☐ Freshwater lake (>8 ha) ☐ Shrubby swamp ☐ Wooded swamp ☐ Gilgai ☐ Claypan ☐ Ephemeral Marsh / swamp with emergent veg			
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field			
AREA OF WETLAND:			
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest			
Dead or living trees in the water (partly submerged) for roosting and nesting habitat			
Fencing to exclude grazing stock from direct access to the waters edge			
Dense tree and / or shrub cover close to the edge of the water			
ADDITIONAL NOTES:			
Remnant forest very isolated. Conservation reserve.			
Photos: 101-0283 SE 101-0284			
SITE NO. 7016			

HABITAT ASSE	SSMENT FOR 1 ha SEARCH AREA
PROJECT 56066503 Lucas Ener	DATE 3/9/08
	easement NAME LG, DR
AMG 56 H EASTING 38750	NORTHING 6 3 9 3 7 3 3
DISTANCE and DIRECTION from TOWN: SITE IS 1.2 km (s)	
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED?	Aust (84/66) WGS 84 of GDA ALTITUDE 36 ALTITUDE
GENERAL Remnant trees Regrowth Plantation	VEGETATION STRUCTURE: OVERSTORY Tree canopy cover (trees taller that 3 m):
Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☒ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	single tree species Are trees mostly?
O son diestrial t	two or three species native
Habitat type // per fullation Amon	more than three species exotic
SOIL Sandy Clay	Species: E. siderophfora O
	Average height of overstory?
LANDSCAPE Shape of patch?	□ 3-5 m □ 5-10 m 🔯 10-15 m □ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees?
	Even-aged (Trees mostly the same age or size)
Crock / river	Multi-aged (Trees of varing size or age) Are there obvious signs of dieback in the tree canopy?
Strip details:	□ None □ Some dieback □ Extensive dieback
☐ Windbreak ☐ Other ☐	
WidthArea of full patch that contains 1 ha area:	VEGETATION STRUCTURE: UNDERSTORY
	Tall understory shrub cover (>2 m): ☐ Absent
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation?	two or three species
X YES □ NO	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: E, isopreciformiz
A- Isolated B-Semi isolated	Low shrub cover (0.5 m – 2 m):
C-Not isolated D-Continuous tree / shrub	☐ Absent ☐ Scattered ☐ Common ☐ Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
a 6: •	single shrub species Are shrubs mostly?
(B)	two or three species native
	more than three species exotic
	Species: Zanthoua pp.
	Species: Lanthoria op. Pullenes op. Dominant ground cover within this 1 ha area:
200 m D	▼ Tussocks
	Low Heath Weeds Bare dirt / rocks / litter
Is this 1 ha area on a: ☑ Flat ☐ Ridge ☐ Gully ☐ Slope	
If slope, give aspect over 20 m	LAND USE
Degrees of slope over 20 m:	Used for? ☐ Mixed grazing ☐ Sheep ☐ Cattle
W 	Crop type
SW V SE	Other Other Remnant w Vowerline Conyon



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Scattered (1-5) □ Common (6-10) □ Absent (0) □ (>10) **Abundant** dead living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? Scattered (1-10) Abundant Common □ Absent (0) □ (10-20) (> 20) Fallen trees or branches present >50 cm diameter? □ Scattered (1-5) □ Common (6-10) **Abundant** Absent (0) □ (>10) Leaf litter? ▼ Sparse ☐ Patchy ☐ Absent ☐ Dense Mistletoe within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant [®] **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? ☑ Scattered ☐ Common ■ Absent ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common Absent [☐ Abundant Cliffs and overhangs within this 1 ha area? Absent □ Scattered □ Common ☐ Abundant If present, are they mostly? **⊠** Sandstone ☐ Granite ■ Bas alt ☐ Other **CRACKING CLAY SOILS** ☐ YES ☑ NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Absent 🗵 Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna ☑ Absent ☐ Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Absent Poor ☐ Average ☐ Good ☐ Excellent Small birds ☐ Average ☐ Good ☐ Excellent ☐ Absent ☐ Poor **OTHER HABITAT QUALITY ASPECTS:** Raining frog calls

LADITAT ACCECCMENT (conf)

HADITAT ASSES	SIVILIAI (COIIC.)	
WETLAN Wetlands present?	NDS	
☐ YES ☑ NO		
TYPE OF WETLAND:		
MARINE:		
☐ Coral reef ☐ Rocky sho	ore Beach (all)	
☐ Estuarine ☐ Tidal mud	flat 🔲 Tidal marsh	
☐ Tidal forest (e.g. mangrove)	☐ Lagoon	
Saline / brackish lake / swamp	•	
INLAND WETLAND:		
☐ Creek 📭 ☐ Dry 🔲 Fid	owing	
River	☐ Floodplain, river flat	
☐ Small billabong , pools (<8 ha)	☐ Freshwater lake (>8 ha)	
☐ Shrubby swamp	■ Wooded swamp	
☐ Gilgai	☐ Claypan	
☐ Ephemeral Marsh / swamp with	h emergent veg	
ARTIFICIAL WETLANDS:	ч	
Large dam, reservoir (>8 ha)	Small dam, pond, tank	
☐ Irrigation channel, rice field	☐ Wastewater treatment	
☐ Canal, drainage channel, ditch	Salt pond / field	
AREA OF WETLAND:	_	
-	8-100 ha	
■ Water mostly □ Frackish / sal	ine 🔲 Saltv	
☐ Fresh ☐ Brackish / saline ☐ Salty		
FEATURES PRESENT	for binds to food	
☐ Broad, shallow, swampy areas		
☐ Islands for birds to roost and n	lest	
Dead or living trees in the water (partly submerged) for roosting and nesting habitat		
Fencing to exclude grazing stock from direct access to the waters edge		
Dense tree and / or shrub cover close to the edge of the water		
Photo	.)	
101-0285 facing SW		
Monoculture of ironbark		
Ituran indicating histo	rical thinning	

2017

HLA 18 of 2/	ESSMENT FOR 1 ha SEARCH AREA
PROJECT 5 6066503 Lucas amenay	4/0/00
	100 Nature Reserve NAME L.G, D.R.
	NAME L. C. D. N.
AMG 5 6 H EASTING 3 9 4 5 3	NORTHING 3 9 2 4 8 7
DISTANCE and DIRECTION from TOWN: SITE IS 1.8 km (s)	SE (N. S. E. W.) OF Clarence town IN NSW (state)
WAS GPS USED? YES NO IF YES, WHICH DATUM WAS USED	ALTITUDE 25 mm
GENERAL	V
☑ Remnant trees ☑ Regrowth ☐ Plantation	VEGETATION STRUCTURE: OVERSTORY Tree canopy cover (trees taller that 3 m):
☑ Native grasses (trees / shrubs may be present)	☐ Absent ☐ Sparse ☒ Open ☐ Dense
Non-native grasses (trees / shrubs may be present)	If trees present:
☐ Improved pasture ☐ Other	single tree species Are trees mostly?
Habitat type Open encaly of frust	two or three species
RE VEG FW LANDFORM PLA	more than three species exotic
SOIL Clay Loan	Species: Corymbia Cituadora O E. siderophloia O
SOIL SOIL	Average height of overstory?
LANDSCAPE Shape of patch?	☐ 3-5 m ☐ 5-10 m 🔀 10-15 m ☐ > 15 m
☐ Circular / square ☐ Irregular ☐ Strip <50 m	Are the trees?
Strip >50 m	Even-aged (Trees mostly the same age or size)
Strip detaile.	Multi-aged (Trees of varing size or age) Are there obvious signs of dieback in the tree canopy?
Strip details: Greek / river Roadside Windbreak Other	None Some dieback Extensive dieback
Width Area of full patch that contains 1 ha area:	VEGETATION STRUCTURE : UNDERSTORY Tall understory shrub cover (>2 m):
□ < 3 ha □ 3-10 ha □ 11-30 ha	□ Absent □ Scattered □ Common ☑ Abundant
☐ 31-100 ha ☐ 101-400 ha ☐ > 400 ha	If shrubs present:
Is the 1 ha patch connected to other similar sized or larger patches	single shrub species Are shrubs mostly?
of vegetation? ☑ YES □ NO	two or three species native
	more than three species exotic
Position of this 1 ha search area relative to the surrounding tree / shrub cover?	Species: Molloluca nodosa
A- Isolated B-Semi isolated	
☐ C-Not isolated ☐ D-Continuous tree / shrub	Low shrub cover (0.5 m − 2 m): Absent Scattered Common Abundant
Continuous tree/shrub cover Scattered trees Grassland	If shrubs present:
6	single shrub species Are shrubs mostly?
	two or three species
	more than three species
	Species: Bursaria spinssa descia instata Puttenea sp. Dominant ground cover within this 1 ha area:
	Dominant ground cover within this 1 ha area:
200 m	▼Tussocks ☐ Hummocks ☐ Continuous grass / herbs
Is this 1 ha area on a:	☐ Low Heath ☐ Weeds ☐ Bare dirt / recks / litter
Flat Ridge Gully Slope	
If slope, give aspect over 20 m	LAND USE Used for?
Degrees of slope over 20 m:	☐ Mixed grazing ☐ Sheep ☐ Cattle
₩ ▼ 	☐ Crops Crop type
SW V SE	Other Other Nature reserve



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? Abundant (>10) Scattered (1-5) □ Common (6-10) □ Absent (0) dead living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Common (10-20) Abundant (> 20) Scattered (1-10) Fallen trees or branches present >50 cm diameter? Scattered (1-5) □ Common (6-10) Abundant □ (>10) Leaf litter? **∑** Patchy ☐ Dense Absent ■ Sparse Mistletoe within this 1 ha area? ■ Abundant Absent □ Scattered □ Common **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? ☐ Scattered ☐ Common ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common ☐ Abundant Absent Cliffs and overhangs within this 1 ha area? ☐ Abundant **☑** Absent □ Scattered □ Common If present, are they mostly? ☐ Granite Sandstone ☐ Karst ☐ Basalt ☐ Other **CRACKING CLAY SOILS** ☐ YES 🗹 NO **HABITAT QUALITY FOR:** Hollow dependent fauna ☐ Average ☐ Good ☐ Excellent Absent 🛛 Poor Rock dependent fauna ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Average ☐ Good ☐ Excellent ☐ Absent ☒ Poor Small birds ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS: Trog calls

WETLANDS Wetlands present?		
TYPE OF WETLAND:		
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove)		
Saline / brackish lake / swamp		
INLAND WETLAND: Creek Dry Flowing River Floodplain, river flat Small billabong, pools (<8 ha) Freshwater lake (>8 ha) Shrubby swamp Wooded swamp Gilgai Claypan		
□ Ephemeral Marsh / swamp with emergent veg ARTIFICIAL WETLANDS: □ Small dam, pond, tank □ Irrigation channel, rice field □ Wastewater treatment □ Canal, drainage channel, ditch □ Salt pond / field		
AREA OF WETLAND:		
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest		
Dead or living trees in the water (partly submerged) for roosting and nesting habitat		
Fencing to exclude grazing stock from direct access to the waters edge		
Dense tree and / or shrub cover close to the edge of the water		
ADDITIONAL NOTES:		
Photo 101-0293 NW of hibitat 101-0291 Powerline eastment SW		
Wallaroo Nature reserve Habitat assessment object to the powerline easement West, door to road.		
casement West, dose to road.		



KEY HABITAT FEATURES **HOLLOWS and LOGS** No. of hollows within 1 ha patch? □ Abundant (>10) Scattered (1-5) □ Common (6-10) □ Absent (0) ☐ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Common (10-20) **Abundant** Scattered (1-10) □ Absent (0) □ (> 20) Fallen trees or branches present >50 cm diameter? □ Common (6-10) Abundant ☐ Scattered (1-5) Absent □ (>10) Leaf litter? **⊠** Patchy ☐ Dense ☐ Absent □ Sparse Mistletoe within this 1 ha area? **☑** Absent ☐ Scattered ☐ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Surface rocks of 10-30 cm diameter? X Scattered ☐ Common ☐ Abundant Absent Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common ☐ Abundant **X** Absent Cliffs and overhangs within this 1 ha area? X Absent ☐ Scattered ☐ Common ☐ Abundant If present, are they mostly? ■ Sandstone ☐ Granite ■ Basalt ☐ Karst ☐ Other **CRACKING CLAY SOILS** ☐ YES 🔯 NO HABITAT QUALITY FOR: Hollow dependent fauna ☐ Average ☐ Good ☐ Excellent ☐ Absent 🔀 Poor Rock dependent fauna Absent Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Average ☐ Good ☐ Excellent ☐ Absent 🏻 Poor Small birds ☐ Average ☐ Good ☐ Excellent Absent Poor OTHER HABITAT QUALITY ASPECTS: Young remnant forest with few large trees, stags and logs.

WETLANDS	
Wetlands present? YES NO	
TYPE OF WETLAND:	
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp	
INLAND WETLAND: Creek Dry Flowing River Floodplain, river flat Small billabong, pools (<8 ha) Freshwater lake (>8 ha) Shrubby swamp Wooded swamp Gilgai Claypan Ephemeral Marsh / swamp with emergent veg	
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Irrigation channel, rice field Canal, drainage channel, ditch Small dam, pond, tank Wastewater treatment Salt pond / field	
AREA OF WETLAND:	
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest	
Dead or living trees in the water (partly submerged) for roosting and nesting habitat	
Fencing to exclude grazing stock from direct access to the waters edge	
Dense tree and / or shrub cover close to the edge of the water	
ADDITIONAL NOTES:	
Several drawings gullies perpendicular to the powerline. 101-0300 East Photos 0301 West	
SITE NO. 2019	



KEY HABITAT FEATURES HOLLOWS and LOGS No. of hollows within 1 ha patch? □ Abundant (>10) Scattered (1-5) □ Common (6-10) □ Absent (0) dead Miliving If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Common (10-20) **Abundant** Scattered (1-10) □ Absent (0) □ (> 20) Fallen trees or branches present >50 cm diameter? ☐ Scattered ☐ Common (6-10) **Abundant** Absent (0) □ (>10) Leaf litter? **Sparse** ☐ Patchy ☐ Dense ■ Absent Mistletoe within this 1 ha area? Absent □ Scattered □ Common ☐ Abundant **ROCKS** Outcrops within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant Absent Surface rocks of 10-30 cm diameter? Absent ☐ Scattered ☐ Common ☐ Abundant Surface rocks of > 30 cm diameter? ☐ Scattered ☐ Common ☐ Abundant X Absent Cliffs and overhangs within this 1 ha area? ☐ Scattered ☐ Common ☐ Abundant **Absent** If present, are they mostly? ☐ Granite ☐ Sandstone ■ Basalt ☐ Other **CRACKING CLAY SOILS** ☐ YES 🔯 NO HABITAT QUALITY FOR: Hollow dependent fauna ☐ Average ☐ Good ☐ Excellent ☐ Absent 🕅 Poor Rock dependent fauna Absent 🔲 Poor ☐ Average ☐ Good ☐ Excellent Log dependent fauna ☐ Average ☐ Good ☐ Excellent ☐ Absent ☒ Poor Small birds Average Good Excellent ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS: Weather: Kaining Those calls To minimize disturbance heriat west of powerline + paperbank swamp, or HDD preferable to utilize existing alexungs

HADITAT ASSESSIVIENT (COIL.)		
WETLANDS Wetlands present? YES NO		
TYPE OF WETLAND:		
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon Saline / brackish lake / swamp		
INLAND WETLAND: ☐ Creek		
River Floodplain, river flat		
☐ Small billabong , pools (<8 ha) ☐ Freshwater lake (>8 ha)		
☐ Shrubby swamp		
☐ Gilgai ☐ Claypan		
Ephemeral Marsh / swamp with emergent veg		
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field		
AREA OF WETLAND:		
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed Islands for birds to roost and nest		
Dead or living trees in the water (partly submerged) for roosting and nesting habitat		
Fencing to exclude grazing stock from direct access to the waters edge		
Dense tree and / or shrub cover close to the edge of the water		
ADDITIONAL NOTES:		
Wetland ourrounded by grazing pastures. Some remnant trees		

ADDITIONAL NOTES:
Wetland surrounded by grazing postures. Some remnant trees
l .
creating sparse forest. Trees in the
wetland removed for powerline and
telecomunications easement.
Photo 101-0308 SW
101-0309 55
2020



KEY HABITAT FEATURES **HOLLOWS and LOGS** No. of hollows within 1 ha patch? Scattered (1-5) □ Common (6-10) **Abundant** □ Absent (0) □ (>10) ☐ dead ☐ living If present, are they mostly? Fallen trees or branches present 10-50 cm diameter? □ Common (10-20) **Abundant** ☐ Scattered (1-10) Absent (0) (> 20) Fallen trees or branches present >50 cm diameter? Abundant ☐ Scattered (1-5) □ Common (6-10) □ (>10) Leaf litter? Patchy ☐ Dense Absent ☐ Sparse Mistletoe within this 1 ha area? ■ Abundant Absent ☐ Scattered ☐ Common **ROCKS** Outcrops within this 1 ha area? Absent ☐ Scattered ☐ Common □ Abundant Surface rocks of 10-30 cm diameter? ☐ Scattered ☐ Common □ Abundant Absent Surface rocks of > 30 cm diameter? ☐ Abundant Absent ☐ Scattered ☐ Common Cliffs and overhangs within this 1 ha area? ☐ Abundant Absent ☐ Scattered ☐ Common If present, are they mostly? ☐ Granite ☐ Sandstone ☐ Basalt ☐ Karst ☐ Other **CRACKING ÇLAY SOILS** ☐ YES 🛛 NO **HABITAT QUALITY FOR:** Hollow dependent fauna Absent 🕅 Poor ☐ Average ☐ Good ☐ Excellent Rock dependent fauna ☐ Average ☐ Good ☐ Excellent Absent Poor Log dependent fauna ☐ Average ☐ Good ☐ Excellent Absent Poor Small birds Average Good Excellent ☐ Absent ☐ Poor OTHER HABITAT QUALITY ASPECTS:

WETLANDS	
Wetlands present? YES NO	
TYPE OF WETLAND:	
MARINE: Coral reef Rocky shore Beach (all) Estuarine Tidal mudflat Tidal marsh Tidal forest (e.g. mangrove) Lagoon	
Saline / brackish lake / swamp	
INLAND WETLAND: ☐ Creek ☐ Dry ☐ Flowing	
River Floodplain, river flat	
☐ Small billabong , pools (<8 ha) ☐ Freshwater lake (>8 ha)	
Shrubby swamp	
☐ Gilgai ☐ Claypan	
Ephemeral Marsh / swamp with emergent veg	
ARTIFICIAL WETLANDS: Large dam, reservoir (>8 ha) Small dam, pond, tank Irrigation channel, rice field Wastewater treatment Canal, drainage channel, ditch Salt pond / field AREA OF WETLAND:	
Water mostly Fresh ☐ Brackish / saline ☐ Salty	
FEATURES PRESENT Broad, shallow, swampy areas for birds to feed	
✓ Islands for birds to roost and nest	
Dead or living trees in the water (partly submerged) for roosting and nesting habitat	
Fencing to exclude grazing stock from direct access to the waters edge	
water fathy	
Photo 101-0310 5 GPBWLND10 101-0311 E WLND9 Small aux connecting wetland with river 093 wyport	
water hyacinth site No. 2021	