## DA Form 1 – Development application details

Approved form (version 1.2 effective 7 February 2020) made under section 282 of the Planning Act 2016.

This form **must** be used to make a development application **involving code assessment or impact assessment**, except when applying for development involving only building work.

For a development application involving **building work only**, use *DA Form 2 – Building work details*.

For a development application involving **building work associated with any other type of assessable development** (i.e. material change of use, operational work or reconfiguring a lot), use this form (*DA Form 1*) and parts 4 to 6 of *DA Form 2 – Building work details*.

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

**Note:** All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

## PART 1 – APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	Alexander and Kristen Knight
Contact name (only applicable for companies)	Patrick Clifton C/- GMA Certification
Postal address (P.O. Box or street address)	PO Box 831
Suburb	Port Douglas
State	QLD
Postcode	4877
Country	Australia
Contact number	0438 755 374
Email address (non-mandatory)	patrickc@gmacert.com.au
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	20201637

2) Owner's consent
2.1) Is written consent of the owner required for this development application?
□ No – proceed to 3)



## PART 2 – LOCATION DETAILS

Note: P	rovide details b	elow and			) or 3.2), and 3. n for any or all p				application. For further information, see <u>DA</u>
Forms Guide: Relevant plans.  3.1) Street address and lot on plan									
					ata manat la ciliata	- ^ ~ ~			
			-		ots must be liste an adjoining		cent ni	onerty of the	premises (appropriate for development in
wat	er but adjoining	g or adjad	cent to lar	nd e.g. je	etty, pontoon. A	ll lots mu	ist be lis	ted).	ргенносо (арргорнате тог и е четорителя пт
	Unit No.	Street	No.	Stree	t Name and	Туре			Suburb
a)				Mowk	oray River Ro	oad			Mowbray
a)	Postcode	Lot No	٥.	Plan Type and Number (e.g. RP, SP)		P, SP)	Local Government Area(s)		
	4877	96		SP31	8402				Douglas Shire Council
	Unit No.	Street	No.	Stree	t Name and	Type			Suburb
b)									
D)	Postcode	Lot No	٥.	Plan	Type and Nu	ımber (	e.g. RF	P, SP)	Local Government Area(s)
3.2) C	oordinates d	of prem	ises (ap	propriate	e for developme	ent in rem	note area	as, over part of a	lot or in water not adjoining or adjacent to land
	g. channel dred lace each set d				e row.				
					le and latitud	le			
Longit		-	Latitud			Datur	n		Local Government Area(s) (if applicable)
. 3 :	(-)			- (-)		$\square$ W	GS84		
					☐ GDA94				
	Other:								
Coordinates of premises by easting and northing									
Easting(s) Northing(s) Zone Ref. Datum Local Government Area(s) (if a		Local Government Area(s) (if applicable)							
				☐ 54 ☐ WGS84					
					☐ 55	☐ GI	DA94		
					□ 56	Ot	ther:		
3.3) A	dditional pre	mises							
							oplicati	on and the de	etails of these premises have been
l ——		chedule	to this	develo	opment appli	cation			
⊠ No	t required								
4) Ider	ntify any of t	ne follo	wing th	at appl	v to the pren	nises a	nd pro	vide any rele	vant details
					tercourse or				
	•		•						
Name of water body, watercourse or aquifer:  On strategic port land under the <i>Transport Infrastructure Act 1994</i>									
	plan descrip				•				
ŀ	of port auth		_	•					
	a tidal area								
		ernmer	nt for the	e tidal	area (if applica	able):			
ŀ	of port auth					,			
						cturina	and D	isposal) Act 2	2008
	of airport:		,		,	9		, ,	

$\hfill \square$ Listed on the Environmental Management Register (EM	IR) under the Environmental Protection Act 1994
EMR site identification:	
Listed on the Contaminated Land Register (CLR) under	r the Environmental Protection Act 1994
CLR site identification:	
5) Are there any existing easements over the premises? Note: Easement uses vary throughout Queensland and are to be identified how they may affect the proposed development, see <u>DA Forms Guide</u> .	ed correctly and accurately. For further information on easements and
Yes – All easement locations, types and dimensions ar application	e included in plans submitted with this development
app. oat.o.	

## PART 3 - DEVELOPMENT DETAILS

## Section 1 – Aspects of development

edution i hopodio di de	volopinoni		
6.1) Provide details about the	e first development aspect		
a) What is the type of develo	pment? (tick only one box)		
	Reconfiguring a lot	Operational work	☐ Building work
b) What is the approval type?	? (tick only one box)		
□ Development permit	☐ Preliminary approval	☐ Preliminary approval that	includes a variation approval
c) What is the level of assess	sment?		
□ Code assessment	☐ Impact assessment (requir	es public notification)	
d) Provide a brief description lots):	of the proposal (e.g. 6 unit aparts	ment building defined as multi-unit d	welling, reconfiguration of 1 lot into 3
Dwelling House			
e) Relevant plans  Note: Relevant plans are required to Relevant plans.	o be submitted for all aspects of this o	development application. For further i	information, see <u>DA Forms guide:</u>
Relevant plans of the prop	posed development are attach	ed to the development applic	ation
6.2) Provide details about the	e second development aspect		
a) What is the type of develo	pment? (tick only one box)		
☐ Material change of use	Reconfiguring a lot	Operational work	☐ Building work
b) What is the approval type?	? (tick only one box)		
☐ Development permit	☐ Preliminary approval	Preliminary approval that	t includes a variation approval
c) What is the level of assess	sment?		
Code assessment	☐ Impact assessment (requir	es public notification)	
d) Provide a brief description lots):	of the proposal (e.g. 6 unit apart	ment building defined as multi-unit d	welling, reconfiguration of 1 lot into 3
e) Relevant plans  Note: Relevant plans are required to  Relevant plans.	be submitted for all aspects of this d	evelopment application. For further in	nformation, see <u>DA Forms Guide:</u>
Relevant plans of the prop	posed development are attach	ned to the development applic	ation
6.3) Additional aspects of dev	velopment		
that would be required un	elopment are relevant to this c nder Part 3 Section 1 of this fo		
Not required     ■			

Section 2 – Further devei	opment ae	etalis				
7) Does the proposed develo	opment appli	ication invol	lve any of the follo	wing?		
Material change of use	🛚 Yes -	- complete	division 1 if assess	sable agains	t a local planning ir	strument
Reconfiguring a lot	Yes -	- complete	division 2			
Operational work	☐ Yes -	- complete	division 3			
Building work	Yes -	- complete	DA Form 2 – Buila	ling work de	tails	
	_					
Division 1 — Material change  Note: This division is only required to local planning instrument.  8.1) Describe the proposed	be completed in		e development applica	tion involves a	material change of use	assessable against a
Provide a general descriptio proposed use	n of the		ne planning schem ch definition in a new ro		Number of dwelling units (if applicable)	ng Gross floor area (m²) (if applicable)
Dwelling House		Dwelling I	House		1	N/A
8.2) Does the proposed use	involve the ι	use of existi	ng buildings on the	e premises?		
Yes						
⊠ No						
Division O. Donostinosion	- 1-4					
Division 2 – Reconfiguring a Note: This division is only required to		f any nart of th	e develonment annlica	tion involves re	configuring a lot	
9.1) What is the total numbe					ooringaring a lot.	
·		<u> </u>				
9.2) What is the nature of the	e lot reconfig	juration? (tid	ck all applicable boxes)			
Subdivision (complete 10))			Dividing land	into parts by	agreement (comple	te 11))
☐ Boundary realignment (co	omplete 12))				easement giving ac	cess to a lot
			from a constri	ucted road (	complete 13))	
10) Subdivision						
10.1) For this development,	haw many la	sta ara bain	a areated and who	t is the inter	dad was of those la	to:
Intended use of lots created	Reside	enuai	Commercial	Industrial	Other, pie	ease specify:
Number of late exected						
Number of lots created	ata a a dO					
10.2) Will the subdivision be						
☐ Yes – provide additional ☐ No	details below	ı				
How many stages will the wo	orks include?	?				
What stage(s) will this devel						
apply to?	opinoni appi	.54.1011				

11) Dividing land int parts?	o parts by	agreement	– how ma	ny part	s are being c	created and wha	t is the intended use of the
Intended use of par	ts created	l Reside	Residential		mercial	Industrial	Other, please specify:
Number of parts cre	created						
		1					
12) Boundary realig				ما طمع		th	
12.1) What are the	Current an Curre	• •	areas for e	each io	t comprising	<u> </u>	posed lot
Lot on plan descript					Lot on plan description		Area (m²)
		,				·	
12.2) What is the re	ason for t	he boundar	y realignme	ent?			
13) What are the di				ting ea	sements bei	ng changed and	l/or any proposed easement?
Existing or	Width (n	n) Length		pose o	f the easeme	ent? (e.g.	Identify the land/lot(s)
proposed?			pear	еѕіпап а	ccess)		benefitted by the easement
Division 0 On small		1-					
Division 3 – Operati <u>Note: This division is only l</u>			any part of th	ne develo	pment applicati	on involves operatio	nnal work.
14.1) What is the na							
Road work			_	rmwate		<u> </u>	frastructure
☐ Drainage work☐ Landscaping			☐ Earthwo ☐ Signage		_ · ·		infrastructure y vegetation
Other – please s	specify:						, 5
14.2) Is the operation	onal work	necessary t	o facilitate	the cre	ation of new	lots? (e.g. subdivi	ision)
Yes – specify nu	ımber of n	new lots:					
No No		alua af ilaa i					
14.3) What is the m	onetary v	alue of the p	proposea o	peratio	nai work? (in	clude GST, material	Is and labour)
Ψ							
PART 4 – ASSI	ESSME	ENT MAI	NAGER	DET	AILS		
15) Identify the asse	essment r	manager(s)	who will be	asses	sing this dev	elopment applica	ation
Douglas Shire Cour	ncil						
							development application?
Yes – a copy of					•	• •	request – relevant documents
attached	michil ið l	anon to nave	agreeu lu	เมอ อน	perseueu pie	arming scriente i	request – relevant documents
⊠ No							

## PART 5 – REFERRAL DETAILS

17) Does this development application include any aspects that have any referral requirements?  Note: A development application will require referral if prescribed by the Planning Regulation 2017.
No, there are no referral requirements relevant to any development aspects identified in this development application – proceed to Part 6
Matters requiring referral to the Chief Executive of the Planning Act 2016:
☐ Clearing native vegetation
Contaminated land (unexploded ordnance)
Environmentally relevant activities (ERA) (only if the ERA has not been devolved to a local government)
Fisheries – aquaculture
Fisheries – declared fish habitat area
Fisheries – marine plants
Fisheries – waterway barrier works
Hazardous chemical facilities
Heritage places – Queensland heritage place (on or near a Queensland heritage place)
☐ Infrastructure-related referrals – designated premises
☐ Infrastructure-related referrals – state transport infrastructure
☐ Infrastructure-related referrals – State transport corridor and future State transport corridor
☐ Infrastructure-related referrals – State-controlled transport tunnels and future state-controlled transport tunnels
☐ Infrastructure-related referrals – near a state-controlled road intersection
☐ Koala habitat in SEQ region – interfering with koala habitat in koala habitat areas outside koala priority areas
☐ Koala habitat in SEQ region – key resource areas
Ports – Brisbane core port land – near a State transport corridor or future State transport corridor
Ports – Brisbane core port land – environmentally relevant activity (ERA)
Ports – Brisbane core port land – tidal works or work in a coastal management district
Ports – Brisbane core port land – hazardous chemical facility
Ports – Brisbane core port land – taking or interfering with water
☐ Ports – Brisbane core port land – referable dams
☐ Ports – Brisbane core port land – fisheries
Ports – Land within Port of Brisbane's port limits (below high-water mark)
☐ SEQ development area
☐ SEQ regional landscape and rural production area or SEQ rural living area – tourist activity or sport and recreation activity
SEQ regional landscape and rural production area or SEQ rural living area – community activity
SEQ regional landscape and rural production area or SEQ rural living area – indoor recreation
SEQ regional landscape and rural production area or SEQ rural living area – urban activity
SEQ regional landscape and rural production area or SEQ rural living area – combined use
☐ Tidal works or works in a coastal management district
Reconfiguring a lot in a coastal management district or for a canal
Erosion prone area in a coastal management district
☐ Urban design
☐ Water-related development – taking or interfering with water
☐ Water-related development – removing quarry material (from a watercourse or lake)
☐ Water-related development – referable dams
☐ Water-related development –levees (category 3 levees only)
☐ Wetland protection area
Matters requiring referral to the local government:
☐ Airport land
Environmentally relevant activities (ERA) (only if the ERA has been devolved to local government)

☐ Heritage places – Local heritage places		
Matters requiring referral to the Chief Executive of the di	_	on entity:
Infrastructure-related referrals – Electricity infrastructur	е	
Matters requiring referral to:		
The Chief Executive of the holder of the licence, if		
• The <b>holder of the licence</b> , if the holder of the licence		
Infrastructure-related referrals – Oil and gas infrastructure	ure	
Matters requiring referral to the <b>Brisbane City Council:</b> Ports – Brisbane core port land		
Matters requiring referral to the Minister responsible for	administering the <i>Transport Ir</i>	ofrastructure Act 1994:
Ports – Brisbane core port land (where inconsistent with the	-	
Ports – Strategic port land	,	
Matters requiring referral to the relevant port operator, if	applicant is not port operator:	
☐ Ports – Land within Port of Brisbane's port limits (below	high-water mark)	
Matters requiring referral to the Chief Executive of the re	_	
Ports – Land within limits of another port (below high-water	r mark)	
Matters requiring referral to the <b>Gold Coast Waterways</b> A Tidal works or work in a coastal management district (iii		
Matters requiring referral to the <b>Queensland Fire and Em</b> Tidal works or work in a coastal management district (ii)		berths))
18) Has any referral agency provided a referral response t	or this development application?	)
Yes – referral response(s) received and listed below ar	e attached to this development a	application
No	Defermed a second	Data of referred recovers
Referral requirement	Referral agency	Date of referral response
Identify and describe any changes made to the proposed or referral response and this development application, or inc (if applicable).		
PART 6 – INFORMATION REQUEST		
19) Information request under Part 3 of the DA Rules		
$\ \ \square$ I agree to receive an information request if determined	necessary for this development	application
I do not agree to accept an information request for this		
Note: By not agreeing to accept an information request I, the applicant, a that this development application will be assessed and decided ba		aking this development
<ul> <li>trial this development application will be assessed and decided bat application and the assessment manager and any referral agencie Rules to accept any additional information provided by the applical</li> </ul>	s relevant to the development application	n are not obligated under the DA

Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules.

Further advice about information requests is contained in the <u>DA Forms Guide</u>.

parties

## PART 7 – FURTHER DETAILS

20) Are there any associated				
Yes – provide details below	w or include details in a sched	dule to this d	evelopment application	
⊠ No		1		
List of approval/development	Reference number	Date		Assessment
application references				manager
☐ Approval				
Development application				
☐ Approval				
Development application				
21) Has the portable long ser	vice leave levy been paid? (or	alv annlicable to	n develonment annlications in	volvina huildina work or
operational work)	vice leave levy been paid. (6)	пу аррпсавіс іс	истегорители аррисацопа ит	volving building work of
Yes – a copy of the receip	ted QLeave form is attached	to this devel	opment application	
	rovide evidence that the porta		•	n paid before the
	ides the development application			
give a development appro-	val only if I provide evidence t	that the porta	able long service leave	levy has been paid
Not applicable (e.g. buildir	ng and construction work is le	ss than \$150	0,000 excluding GST)	
Amount paid	Date paid (dd/mm/yy)		QLeave levy number	(A, B or E)
\$			,	,
Ψ				
20) In this development applie	estion in roomanas to a show d	souse peties	or required as a regult	of an antaraamant
22) Is this development applic notice?	tation in response to a snow t	cause notice	or required as a result	or an emorcement
Yes – show cause or enfor	coment notice is attached			
No	cernent notice is attached			
⊠ NO				
20) 5 11 1 1 1 1 1				
23) Further legislative require				
Environmentally relevant ac	<u>tivities</u>			
23.1) Is this development app	lication also taken to be an a	pplication for	an environmental auth	ority for an
Environmentally Relevant A	ctivity (ERA) under section	115 of the <i>El</i>	nvironmental Protection	Act 1994?
Yes – the required attachn	nent (form ESR/2015/1791) fo	or an applica	tion for an environment	al authority
accompanies this developr	ment application, and details a	are provided	in the table below	
⊠ No				
Note: Application for an environment				<u>w.qld.gov.au</u> . An ERA
requires an environmental authority t	o operate. See <u>www.business.qid.go</u> T			
Proposed ERA number:		Proposed E	ERA threshold:	
Proposed ERA name:				
☐ Multiple ERAs are applicate	ole to this development applic	ation and th	e details have been atta	ached in a schedule to
this development application	on.			
Hazardous chemical facilities	es ·			
23.2) Is this development app	lication for a <b>hazardous che</b>	mical facility	v?	
	n of a facility exceeding 10%			d to this dovolopment
application	Tor a facility exceeding 10%	or scriedule	13 threshold is attached	a to this development
⊠ No				
	for further information about hazardo	ous chemical no	otifications.	

Clearing native vegetation
23.3) Does this development application involve <b>clearing native vegetation</b> that requires written confirmation that the chief executive of the <i>Vegetation Management Act 1999</i> is satisfied the clearing is for a relevant purpose under section 22A of the <i>Vegetation Management Act 1999</i> ?
☐ Yes – this development application includes written confirmation from the chief executive of the <i>Vegetation Management Act 1999</i> (s22A determination)
Note: 1. Where a development application for operational work or material change of use requires a s22A determination and this is not included, the development application is prohibited development.  2. See <a href="https://www.qld.gov.au/environment/land/vegetation/applying">https://www.qld.gov.au/environment/land/vegetation/applying</a> for further information on how to obtain a s22A determination.
Environmental offsets
23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a <b>prescribed environmental matter</b> under the <i>Environmental Offsets Act 2014</i> ?
☐ Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter
No  Note: The environmental offset section of the Queensland Government's website can be accessed at <a href="www.qld.gov.au">www.qld.gov.au</a> for further information on environmental offsets.
Koala habitat in SEQ Region
23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?
Yes – the development application involves premises in the koala habitat area in the koala priority area
Yes – the development application involves premises in the koala habitat area outside the koala priority area
No  Note: If a koala habitat area determination has been obtained for this premises and is current over the land, it should be provided as part of this development application. See koala habitat area guidance materials at <a href="www.des.qld.gov.au">www.des.qld.gov.au</a> for further information.
Water resources
Water resources  23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  ☐ Yes − the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development   ☐ No
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development Note: Contact the Department of Natural Resources, Mines and Energy at <a href="https://www.dnrme.qld.gov.au">www.dnrme.qld.gov.au</a> for further information.
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  ☐ Yes − the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development   ☐ No
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development No Note: Contact the Department of Natural Resources, Mines and Energy at <a href="www.dnrme.qld.gov.au">www.dnrme.qld.gov.au</a> for further information.  DA templates are available from <a href="https://planning.dsdmip.qld.gov.au">https://planning.dsdmip.qld.gov.au</a> . If the development application involves:  Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1  Taking or interfering with water in a watercourse, lake or spring: complete DA Form 1 Template 2
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  □ Yes − the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development □ No  Note: Contact the Department of Natural Resources, Mines and Energy at www.dnrme.qld.gov.au for further information.  DA templates are available from <a href="https://planning.dsdmip.qld.gov.au/">https://planning.dsdmip.qld.gov.au/</a> . If the development application involves:  • Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1  • Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2  • Taking overland flow water: complete DA Form 1 Template 3.
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the Water Act 2000?  Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the Water Act 2000 may be required prior to commencing development  No Note: Contact the Department of Natural Resources, Mines and Energy at <a href="www.dnrme.qid.gov.au">www.dnrme.qid.gov.au</a> for further information.  DA templates are available from <a href="https://planning.dsdmip.qid.gov.au">https://planning.dsdmip.qid.gov.au</a> . If the development application involves:  Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1  Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2  Taking overland flow water: complete DA Form 1 Template 3.  Waterway barrier works
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?  ☐ Yes − the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development ☑ No  Note: Contact the Department of Natural Resources, Mines and Energy at www.dnrme.qld.gov.au for further information.  DA templates are available from <a href="https://planning.dsdmip.qld.gov.au/">https://planning.dsdmip.qld.gov.au/</a> . If the development application involves:  Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1  Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2  Taking overland flow water: complete DA Form 1 Template 3.  Waterway barrier works  23.7) Does this application involve waterway barrier works?  ☐ Yes − the relevant template is completed and attached to this development application
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23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the Water Act 2000?  Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the Water Act 2000 may be required prior to commencing development No Note: Contact the Department of Natural Resources, Mines and Energy at <a href="https://planning.dsdmip.qld.gov.au/">www.dnrme.qld.gov.au</a> for further information.  DA templates are available from <a href="https://planning.dsdmip.qld.gov.au/">https://planning.dsdmip.qld.gov.au/</a> . If the development application involves:  Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1  Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2  Taking overland flow water: complete DA Form 1 Template 3.  Waterway barrier works  3.7) Does this application involve waterway barrier works?  Yes – the relevant template is completed and attached to this development application  No  DA templates are available from <a href="https://planning.dsdmip.qld.gov.au/">https://planning.dsdmip.qld.gov.au/</a> . For a development application involving waterway barrier works, complete DA Form 1 Template 4.
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the Water Act 2000?    Yes - the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the Water Act 2000 may be required prior to commencing development

Quarry materials from a watercourse or lake
23.9) Does this development application involve the <b>removal of quarry materials from a watercourse or lake</b> under the <i>Water Act 2000?</i>
☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development ☐ No
<b>Note</b> : Contact the Department of Natural Resources, Mines and Energy at <a href="www.dnrme.qld.gov.au">www.business.qld.gov.au</a> for further information.
Quarry materials from land under tidal waters
23.10) Does this development application involve the <b>removal of quarry materials from land under tidal water</b> under the <i>Coastal Protection and Management Act 1995?</i>
<ul> <li>☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development</li> <li>☒ No</li> </ul>
<b>Note</b> : Contact the Department of Environment and Science at <a href="https://www.des.qld.gov.au">www.des.qld.gov.au</a> for further information.
Referable dams
23.11) Does this development application involve a <b>referable dam</b> required to be failure impact assessed under section 343 of the <i>Water Supply (Safety and Reliability) Act 2008</i> (the Water Supply Act)?
Yes – the 'Notice Accepting a Failure Impact Assessment' from the chief executive administering the Water Supply Act is attached to this development application
No  Note: See guidance materials at <a href="https://www.dnrme.qld.gov.au">www.dnrme.qld.gov.au</a> for further information.
Tidal work or development within a coastal management district
23.12) Does this development application involve tidal work or development in a coastal management district?
Yes – the following is included with this development application:
<ul> <li>Evidence the proposal meets the code for assessable development that is prescribed tidal work (only required if application involves prescribed tidal work)</li> <li>A certificate of title</li> </ul>
⊠ No
<b>Note</b> : See guidance materials at <u>www.des.qld.gov.au</u> for further information.
Queensland and local heritage places
23.13) Does this development application propose development on or adjoining a place entered in the <b>Queensland</b> heritage register or on a place entered in a local government's <b>Local Heritage Register</b> ?
<ul><li>☐ Yes – details of the heritage place are provided in the table below</li><li>☑ No</li></ul>
Note: See guidance materials at <a href="www.des.qld.gov.au">www.des.qld.gov.au</a> for information requirements regarding development of Queensland heritage places.
Name of the heritage place: Place ID:
<u>Brothels</u>
23.14) Does this development application involve a material change of use for a brothel?
Yes – this development application demonstrates how the proposal meets the code for a development application for a brothel under Schedule 3 of the <i>Prostitution Regulation 2014</i>
⊠ No
Decision under section 62 of the Transport Infrastructure Act 1994
23.15) Does this development application involve new or changed access to a state-controlled road?
Yes - this application will be taken to be an application for a decision under section 62 of the <i>Transport Infrastructure Act 1994</i> (subject to the conditions in section 75 of the <i>Transport Infrastructure Act 1994</i> being satisfied)
⊠ No

## PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral	
requirement(s) in question 17	
Note: See the Planning Regulation 2017 for referral requirements	
If building work is associated with the proposed development, Parts 4 to 6 of <u>DA Form 2</u> –	Yes
Building work details have been completed and attached to this development application	Not applicable     ■
Comments of the section address in a section by the section of the	
Supporting information addressing any applicable assessment benchmarks is with the	
development application	
<b>Note</b> : This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning	
schemes, State Planning Policy, State Development Assessment Provisions). For further information, see DA	
Forms Guide: Planning Report Template.	
Relevant plans of the development are attached to this development application	_
Note: Relevant plans are required to be submitted for all aspects of this development application. For further	⊠ Yes
information, see <u>DA Forms Guide: Relevant plans.</u>	
The portable long service leave levy for QLeave has been paid, or will be paid before a	☐ Yes
development permit is issued (see 21)	
25) Applicant declaration	
By making this development application, I declare that all information in this development	application is true and
correct	application is true and
Where an email address is provided in Part 1 of this form, I consent to receive future elec	tronic communications
from the assessment manager and any referral agency for the development application w	
is required or permitted pursuant to sections 11 and 12 of the <i>Electronic Transactions Act</i>	
<b>Note</b> : It is unlawful to intentionally provide false or misleading information.	
Privacy – Personal information collected in this form will be used by the assessment manage	er and/or chosen
assessment manager, any relevant referral agency and/or building certifier (including any pro	
which may be engaged by those entities) while processing, assessing and deciding the deve	
All information relating to this development application may be available for inspection and processing the second	
published on the assessment manager's and/or referral agency's website.	
Personal information will not be disclosed for a purpose unrelated to the Planning Act 2016,	Planning
Regulation 2017 and the DA Rules except where:	•
• such disclosure is in accordance with the provisions about public access to documents co	ontained in the <i>Planning</i>
Act 2016 and the Planning Regulation 2017, and the access rules made under the Plann	
Planning Regulation 2017; or	
• required by other legislation (including the Right to Information Act 2009); or	
otherwise required by law.	
This information may be stored in relevant databases. The information collected will be retain	ned as required by the
Public Records Act 2002.	, ,

# PART 9 – FOR COMPLETION OF THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference num	nber(s):	
Notification of engagement of	of alternative assessment ma	nager	
Prescribed assessment man	ager		
Name of chosen assessmen	t manager		
Date chosen assessment ma	anager engaged		
Contact number of chosen a	ssessment manager		
Relevant licence number(s)	of chosen assessment		
manager			
QLeave notification and pay			
Note: For completion by assessme	nt manager if applicable		
Description of the work			
QLeave project number			
Amount paid (\$)		Date paid (dd/mm/yy)	
Date receipted form sighted	by assessment manager		

Name of officer who sighted the form

# Individual owner's consent for making a development application under the *Planning Act 2016*

We, Michael James Knight and Kerry Anne Knight
as owner of the premises identified as follows:
Mowbray River Road, Mowbray, and described as Lot 96 SP318402
consent to the making of a development application under the Planning Act 2016 by:
Alexander and Kristen Knight
on the premises described above for:
A Dwelling House and Shed
•
Michael James Knight:  Date: QS/06/2020
Kerry Anne knight:  Kerry Thight  Date: 25:06:2020



## Leader's in Building Certification Services



Revision: B



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### 1.0 Introduction

This report has been prepared on behalf of Alexander and Kristen Knight in support of a Development Application to Douglas Shire Council for the purpose of a Dwelling House on land located Mowbray River Road, Mowbray and described as Lot 96 on SP318402.

The application site is a single, regular shaped, rural residential allotment with an area of 4,000m<sup>2</sup>. The site has a gentle slope that falls from the south west to the north east and is currently vacant and cleared of vegetation. The site was created as a result of a recent approval for Reconfiguring a Lot (1 into 2 and access easement). Access to the site is provided by an easement created as a result of that approval from Mowbray River Road.

It is proposed to develop a Dwelling House and Outbuilding (Shed) on the site. The Dwelling House would have a footprint of approximately 300m<sup>2</sup> and would contain 4 bedrooms, deck, and double garage. The outbuilding (shed) would contain a floor area of 180m<sup>2</sup>. Both buildings would be located in the south western half of the site with the north eastern half retained as private open space and curtilage to the Dwelling House.

The development is identified as self-assessable and does not require a planning application, subject to the development satisfying the acceptable outcomes contained in the relevant codes. However, the development does not satisfy the requirements contained in the Rural Residential Zone Code, the Hillslopes Overlay Code and the Bushfire Hazard Overlay Code. Consequently, a Code Assessable application for Material Change of Use is required.

Consideration is required to be given to the assessment criteria for the development application, limited to the subject matter of the self-assessable acceptable outcomes that were not complied with or were not capable of being complied with. The proposed development is considered to be consistent with the Performance Outcomes and is considered to be a suitable use of the site. The development is considered to be consistent in terms of scale and intensity to other forms of development in the locality and the site can contain the use without adverse impact on the amenity of the area.

The application is submitted for approval, subject to reasonable and relevant conditions.



## 2.0 Development Summary

Address:	Mowbray River Road, Mowbray	
Real Property Description:	Lot 96 SP318402	
Easements & Encumbrances:	Nil	
Site Area/Frontage:	Area: 4,000m <sup>2</sup>	
	Frontage: Nil	
Registered Owner:	Michael and Kerry Knight	
Proposal:	Dwelling House	
Approval Sought:	Development Permit	
Level of Assessment:	Code Assessment	
State Interests – State Planning Policy	Economic Growth – Agricultural land classification, in part; and,	
	<ul> <li>Safety and Resilience to Hazards – Bushfire Hazard Potential Impact Buffer.</li> </ul>	
State Interests – SARA Mapping:	<ul> <li>Native Vegetation Clearing –         Category X on the regulated         vegetation management map.     </li> </ul>	
Referral Agencies:	Nil	
State Development Assessment Provisions:	N/A	
Regional Plan Designation:	Rural Living Area	
Zone:	Rural Residential Zone	
Overlays:	<ul> <li>Bushfire Hazard Overlay – Potential Impact Buffer;</li> </ul>	
	<ul> <li>Hillslopes Overlay, in part;</li> </ul>	
	<ul> <li>Landscape Values Overlay – High/Medium Landscape Value; and,</li> </ul>	
	<ul> <li>Potential Landslide Hazard, in part.</li> </ul>	



## 3.0 Site and Locality

The application site is a proposed single allotment located at Mowbray River Road, Mowbray and described as Lot 96 on SP318402. The site has an area of 4,000m<sup>2</sup> and is accessed via an easement over Lot 93 on SP121802 and Lot 95 on SP318402 to the north. The site has a gentle slope from the south to the north and is currently vacant and cleared of vegetation.

On a boarder perspective, the site is located on the southwestern bank of Spring Creek and is surrounded by rural residential development. The area containing the site is characterised by large single detached dwellings on larger allotments.



Photo 1 – Site Location (source; Queensland Globe)



## 4.0 Proposal

It is proposed to develop a Dwelling House and Outbuilding (Shed) on the site. The house would have a footprint of approximately 300m² and would contain 4 bedrooms, deck, and double garage. The outbuilding (shed) would contain a floor area of 180m² and would include a 54m² lean to. Both buildings would be located in the south western half of the site with the north eastern half retained as curtilage to the Dwelling House.

The buildings would be setback a minimum of 6 metres from any site boundary and would have a height of less than 8.5 metres above natural ground. The dwelling house would be constructed on posts to limit the extent of earthworks required and the proposed outbuilding would be a slab on ground construction with a minimum amount of cut and fill required to establish a suitable bench.

Access to the development would be via the existing access easement and would terminate adjacent the house and shed. Car parking for the house would be accommodated within the proposed shed.



Figure 1: Extract of proposed site plan.



Proposal Plans are attached at Appendix 2.

The key development features of the proposed development are summarised in the table below:

Development Feature	Proposal	
Site Area:	4,000m <sup>2</sup>	
Frontage:	Nil (Access via easement)	
Height:	< 8.5 metres.	
Gross Floor Area:	Dwelling House: Approx. 218m <sup>2</sup>	
	Outbuilding (Shed): Approx. 126m <sup>2</sup>	
Site Cover:	12%	
Setbacks:	South west – 6 metres	
	South east – approx 11 metres	
	North west – approx 11 metres	
Access:	As existing	
Car Parking Spaces:	Minimum 2 within proposed shed.	



## 5.0 Statutory Planning Considerations

This section provides a summary of the legislative framework affecting the application pursuant to the Planning Act 2016.

## 5.1 Planning Act 2016

### 5.1.1 Categorisation of Development

The proposed development is not identified as prohibited development having regard to the relevant instruments that can prohibit development under the *Planning Act 2016*, including

- Schedule 10 of the Planning Regulations 2017
- Relevant Categorising Instruments.

The development is made assessable under the Douglas Shire Council Planning Scheme, which is a categorising instrument for the purpose of s43 of the *Planning Act 2016*.

#### 5.1.2 Assessment Manager

Pursuant to Schedule 8 of the *Planning Regulations 2017*, the Assessment Manager for the application is the Douglas Shire Council.

#### 5.1.3 Level of Assessment

The application involves the development of a Dwelling House. The table below identifies the level of assessment and the categorising section of the Douglas Shire Council Planning Scheme.

Development	Categorising Section	Level of Assessment
Dwelling House	Table 5.6.k	Self Assessable

### 5.1.4 Statutory Considerations for Assessable Development

The Tables of Assessment identify the proposed development as Self-Assessable; however, the proposed development is not able to satisfy all the Acceptable Outcomes contained in the Rural Residential Zone Code, The Hillslopes Overlay Code and the Bushfire Hazard Overlay Code. Consequently, Code Assessment is required. In accordance with section 5.4(1) (c) (ii) of the Planning Scheme, the application is to be assessed against the assessment criteria for the development application, limited to the subject matter of the self-assessable acceptable outcomes that were not complied with or were not capable of being complied with.

This assessment is further discussed in Section 6.0 of this report and a detailed assessment of the proposed development against the assessment benchmarks is provided at Appendix 3.



### 5.1.5 State Planning Policy

The application site has the following State Planning Policy designations/classifications:

- Economic Growth Agricultural land classification, in part; and4
- Safety and Resilience to Hazards Bushfire Hazard Potential Impact Buffer

It is understood that the Minister has identified that the State Planning Policy has been appropriately integrated into in the Douglas Shire Council Planning Scheme and consequently no further assessment is required in this instance.

### 5.1.6 Regional Plan

The application site is identified in the Rural Residential designation of the FNQ Regional Plan. Consistent with the State Planning Policies, it is understood that the Planning Scheme has been determined to appropriately advance the Regional Plan and, on that basis, no further assessment is required in this instance.

### 5.1.7 Referral Agencies

There are no referral agencies identified in respect of this application.

## **5.1.8 State Development Assessment Provisions**

As there are no referral agencies for the application, no State Development Assessment Provisions Apply to the assessment.



## 6.0 Local Planning Considerations

## 6.1 Douglas Shire Council Planning Scheme

Within the Douglas Shire Council Planning Scheme (2018), the site is identified within the Environmental Management Zone and is affected by the following overlays:

- Bushfire Hazard Overlay Potential Impact Buffer;
- Hillslopes Overlay, in part;
- Landscape Values Overlay High/Medium Landscape Value; and,
- Potential Landslide Hazard, in part.

The Table below identifies the applicable Assessment Benchmarks contained within the Planning Scheme.

Assessment	Applicability	Compliance
Benchmark		
Rural Residential Zone Code	Applies	Complies with Acceptable Outcomes, excluding AO3.2 relating to outbuilding footprint. Consideration against PO3 is required. See below.
Bushfire Hazard Overlay Code	Applies	Complies with Acceptable Outcomes, except AO12 relating to driveways. Consideration against PO12 is required. See below.
Hillslopes Overlay Code	Applies	Does not comply with AO1, relating to development in the hillslopes area. Consideration against PO1 is required. See below.
Landscape Values Overlay Code	Not applicable	Not identified as an Assessment Benchmark
Potential Landslide Hazard Overlay Code	Applies	Complies with all relevant Acceptable Outcomes.
Dwelling House Code	Applies	Complies with all applicable Acceptable Outcomes.



Access, Parking and Servicing Code	Applies	Complies with all applicable Acceptable Outcomes.
Filling and Excavation Code	Applies	Complies with all applicable Acceptable Outcomes.

#### 6.1.1 Statement of Compliance - Benchmark Assessment

#### 6.1.1.1 Rural Residential Zone Code

Performance Outcome PO3 of the Rural Residential Zone Code states:

Building scale is compatible with the rural residential character of the area and must not detrimentally impact on visual landscape amenity.

The associated Acceptable Outcome AO3.2 states:

An outbuilding used for purposes ancillary to a dwelling house has maximum site coverage not greater than 20% of the total building footprint specified in AO3.1 above. (100m²)

The footprint of the proposed outbuilding would be 180m<sup>2</sup>, which is in excess of the 100m<sup>2</sup> identified as an Acceptable Outcome and consideration of PO1 is required

Notwithstanding that the shed exceeds the amount identified as an Acceptable Outcome, it is consistent with the size of other outbuildings in the area. This includes the outbuildings on lot 95 and lot 94. It would also be located in an area that is not visible from vantage points external to the site. It would not adversely affect the visual landscape amenity or the Rural Character of the area. The proposed development is considered to comply with Performance Outcome PO3 and, therefore, the Assessment Benchmark.

#### 6.1.1.2 Bushfire Hazard Overlay Code

Performance Outcome PO12 of the Bushfire Hazard Overlay Code states:

All premises are provided with vehicular access that enables safe evacuation for occupants and easy access by fire fighting appliances.

The associated Acceptable Outcome AO12 states:

Private driveways:

- (a) do not exceed a length of 60m from the street to the building;
- (b) do not exceed a gradient of 12.5%;
- (c) have a minimum width of 3.5m;



- (d) have a minimum of 4.8m vertical clearance;
- (e) accommodate turning areas for fire-fighting appliances in accordance with Queensland Fire and Emergency Services' Fire Hydrant and Vehicle Access Guidelines: and
- (f) serve no more than 3 dwellings or buildings

The proposal would use an existing access easement that has previously been accepted by Council as part of the reconfiguration that created the application site and no new access is proposed as part of this application. It would be constructed in accordance with the requirements of the Reconfiguring a Lot approval and would serve no more than a single dwelling. On the basis that it has previously been assessed by Council as capable of providing vehicular access that enables safe evacuation for occupants and easy access by fire fighting appliances, it is considered to comply with the Performance Outcome.

### 6.1.1.3 Hillslopes Overlay Code

Performance Outcome PO1 of the Hillslopes Overlay Code states:

The landscape character and visual amenity quality of hillslopes areas is retained to protect the scenic backdrop to the region.

The Associated Acceptable Outcome AO1.1 states:

Development is located on parts of the site that are not within the Hillslopes constraint subcategory as shown on the Hillslopes overlay Maps contained in schedule 2.

Part of the site is located within the Hillslopes Overlay and the proposed shed would be located, in part, within the Hillslopes Overlay. Notwithstanding, the site is a cleared site with a gentle slope. The development would not be visible from vantage points external to the site and the proposed development would not affect the scenic backdrop of the region. It is considered that the proposed development satisfies the Performance Outcome.



## 7.0 Summary and Conclusion

This report has been prepared on behalf of Alexander and Kristen Knight in support of a Development Application to Douglas Shire Council for the purpose of a Dwelling House on land located at Mowbray River Road, Mowbray and described as Lot 96 on SP318402.

The application site is a single, regular shaped rural residential allotment with an area of 4,000m<sup>2</sup>. The site has a gentle slope that falls from the south west to the north east and is currently vacant and cleared of vegetation. The site was created as a result of a recent approval for Reconfiguring a Lot (1 into 2 and access easement). Access to the site is provided by an easement created as a result of that approval from Mowbray River Road.

It is proposed to develop a Dwelling House and Outbuilding (Shed) on the site. The house would have a footprint of approximately  $300m^2$  and would contain 4 bedrooms, deck, and double garage. The outbuilding (shed) would contain a floor area of  $180m^2$ . Both buildings would be located in the south western half of the site with the north eastern half retained as open space and curtilage to the Dwelling House.

The development is identified as self-assessable and does not require a planning application subject to the development satisfying the acceptable outcomes contained in the relevant codes; however, the development does not satisfy the requirements contained in the Rural residential Zone Code, The Hillslopes Overlay Code and the Bushfire Hazard Overlay Code. Consequently, a Code Assessable application for Material Change of Use is required.

Consideration is required to be given to the assessment criteria for the development application, limited to the subject matter of the self-assessable acceptable outcomes that were not complied with or were not capable of being complied with. An assessment has demonstrated that the development is considered to be consistent with the Performance Outcomes and is considered to be a suitable use of the site.

The application is submitted for approval, subject to reasonable and relevant conditions.



## Appendix 1.

## **CERTIFICATE OF TITLE**

## **CURRENT TITLE SEARCH**

#### NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 34216505

Date Created: 23/06/2020

Previous Title: 50293502

#### REGISTERED OWNER

Dealing No: 720081249 01/06/2020

MICHAEL JAMES KNIGHT

KERRY ANNE KNIGHT JOINT TENANTS

#### ESTATE AND LAND

Estate in Fee Simple

LOT 96 SURVEY PLAN 318402

Local Government: DOUGLAS

#### EASEMENTS, ENCUMBRANCES AND INTERESTS

- 1. Rights and interests reserved to the Crown by Deed of Grant No. 18806020 (Lot 96 on CP SR122)
- 2. EASEMENT No 703761602 15/12/1999 at 16:14
  benefiting the land over
  EASEMENT A ON SP121802
- 3. EASEMENT No 720081260 01/06/2020 at 14:32 benefiting the land over EASEMENT B ON SP318402
- 4. EASEMENT No 720081270 01/06/2020 at 14:33 benefiting the land over EASEMENT C ON SP318402

#### ADMINISTRATIVE ADVICES

Dealing Type Lodgement Date Status
718704419 OWNER BUILDR 20/04/2018 11:40 CURRENT
OUEENSLAND BUILDING AND CONSTRUCTION COMMISSION ACT 1991

#### UNREGISTERED DEALINGS

DealingTypeLodgementDateStatus720117752TRANSFER24/06/202010:21UNVERIFIED

Caution - Charges do not necessarily appear in order of priority

\*\* End of Current Title Search \*\*

COPYRIGHT THE STATE OF QUEENSLAND (NATURAL RESOURCES, MINES AND ENERGY) [2020] Requested By: D-ENQ GLOBALX



## Appendix 2.

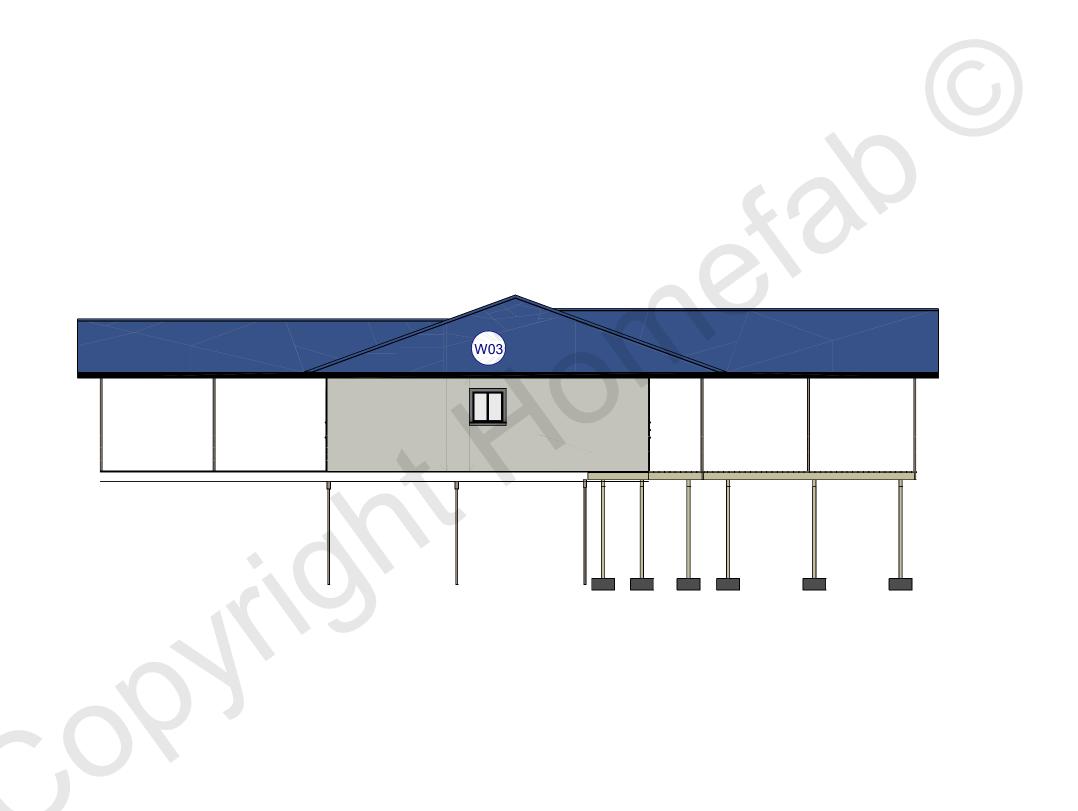
## **PROPOSAL PLANS**

## **Alex & Kristen Knight**

Lot 96 Mowbray River Road, Mowbray, QLD 4877 Ph: 0408413941 E: knight\_ak@bigpond.com









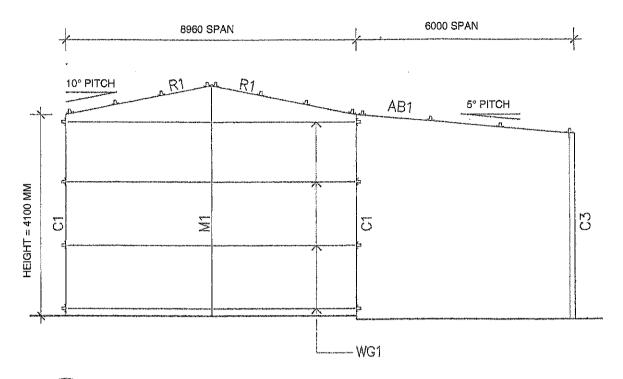


## Form 15 - Compliance Certificate for building Design or Specification Version 4 -July 2017

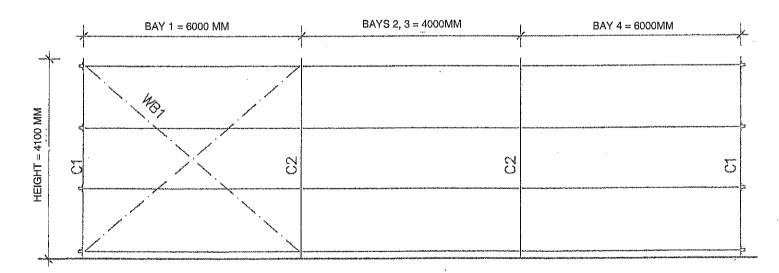
NOTE	NOTE: This is to be used for the purposes of section 10 of the <i>Buildi Regulation 2006</i> . RESTRICTION: A building certifier (class B) can only give a compliar with the BCA or a provision of the Queensland Development Code (Coertificate regarding QDC boundary clearance and site cover provision.	nce certificate about whether building work compiles NDC). A building certifier (Class B) can not give a	
1. Property description	Street address (include no., street, suburb / locality & postcode)		
This section need only be completed if details of street address and property description are	1)		
applicable. EG. In the case of (standard/generic) pool	Mowbray Postcode 4877		
design/shell manufacture and/or patio and carport systems this section may not be applicable.	Lot & plan details (attach list if necessary)		
The description must identify all land the subject	Lot 96		
of the application. The lot & plan details (eg. SP / RP) are shown on title documents or a rates	In which local government area is the land situate	d?	
notice. If the plan is not registered by title, provide previous lot and plan details.	Douglas Shire Council		
2. Description of component/s certified			
Clearly describe the extent of work covered by this	Footings/Ground Slab		
certificate, e.g. all structural aspects of the steel roof beams.	Bracing		
	Tie-Down		
	Structural Steel Framing & Roller Doors x 3		
3. Basis of certification	Terrain Category 2		
Detail the basis for giving the certificate and the extent to which tests, specifications, rules,	Region C		
standards, codes of practice and other publications, were relied upon.			
	Basic Wind Speed =61m/s (Ultimate)  Internal Pressure Coefficient -0.65, +0.7  Australian Standard Codes- AS 4100, AS/NZS 1170 Parts 1 & 2 AS/NZS 4600  AS/NZ4505, AS3600		
	Local Authority Regulations		
	Building Importance Level 2		
	Above Engineering is based on "Class M" & "Class \$	5" sites only.	
Reference documentation Clearly identify any relevant documentation, e.g. numbered structural engineering plans.	Attached Dunnrite Drawing 41708 Sheets 1 & 2 Metroll LHL Test Reports/Data & Rollrite Cyclic	Test Reports/Data	
5. Building certifier reference number	Building certifier reference number		
6. Competent person details	Name (in full)		
A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in an aspect of the	Charles Gianarakis RPEQ 137	<u>'0</u>	
building and specification design, of the building work because of the individual's skill, experience and	이 선 · · · · · · · · · · · · · · · · · ·	ntact person Charles Gianarakis	
qualifications in the aspect. The competent person must also be registered or licensed under a law	Phone no. business hours Mobile no.	Fax no.	
applying in the State to practice the aspect.	07 40 312775		
If no relevant law requires the individual to be licensed or registered to be able to give the help, the certifier must assess the individual as having appropriate	Email address chas@cmgengineers.com.au		
experience, qualifications or skills to be able to give the help.	Postal address		
If the chief executive issues any guidelines for	P.O. Box 5901, Cairns Qld 4870		
assessing a competent person, the building certifler must use the guidelines when assessing the person.	Licence or registration number (if applicable)		
	RPEQ 1370		
7. Signature of competent person	Signature	Date	
This certificate must be signed by the individual assessed by the building certifier as competent.	Mhirantis	26 May 2020	
Andready by the immining certains do completent	- Lyperus -	al Abana de generales en accesarios del	

LOCAL GOVERNMENT USE ONLY

Data received Reference Number/s Approved form 15
Version 4 2017







3 ELEVATION N.T.S.

4 ELEVATION (SIMILAR) N.T.S.

## C.M.G.

CONSULTING ENGINEERS PTYLTD.

011 065 375 STRU

STRUCTURAL AND CIVIL

208 Buchan Street CAIRNS, 4870. Phone: (07) 4031 2775 P.O. Box 5901 Coirns Mail Centre Fax: (07) 4051 9013

#### C25019 C2 = N.T.S. C25019 X 2 R1 = C25019 X 2 R2 = 100x4.0 SHS C3 = C25019 AB1 = AB2 = C25019 X 2 C20019 X 2 M1 = -30x1.2 GI STRAP RB1 = WB1 = 30x1.2 GI STRAP PL1 = } Z15012 @ 4M BAYS WG1 = } Z15015 @ 6M BAYS BS = BAY SPACING = 6&4M HT = HEIGHT \_ 4.10 M RB1 & WB1 = MIN 4x NO.14 TEK SCREWS AT EACH END OF BRACING

8960 SPAN

10° PITCH

P1 & P2 = 900x900x900 DEEP MASS CONCRETE FOOTING P4 = 600 X 600 X 600DEEP MASS

CONCRETE FOOTING
P3 = 450x450x450 DEEP
MASS CONCRETE FOOTING

MEMBER SCHEDULE

C25019

C1 =

RF1 = 150x150 SLAB EDGE THICKENING

DWG NUMBER

SJ = 25mm DEEP SAW CUT WITHIN 24 HRS OF PLACEMENT OF CONCRETE

BASED ON "M" OR "S" CLASS SITE ONLY

SCALE HOR AS SHOWN DRAWN JD

SHEET 2 DESIGNED CMG

DATE 26/05/2020 CHECKED CMG

APPROVED

41708-52

AMDT A

## PROPOSED GREG JACK SHED

6000 SPAN

5° PITCH

AB1

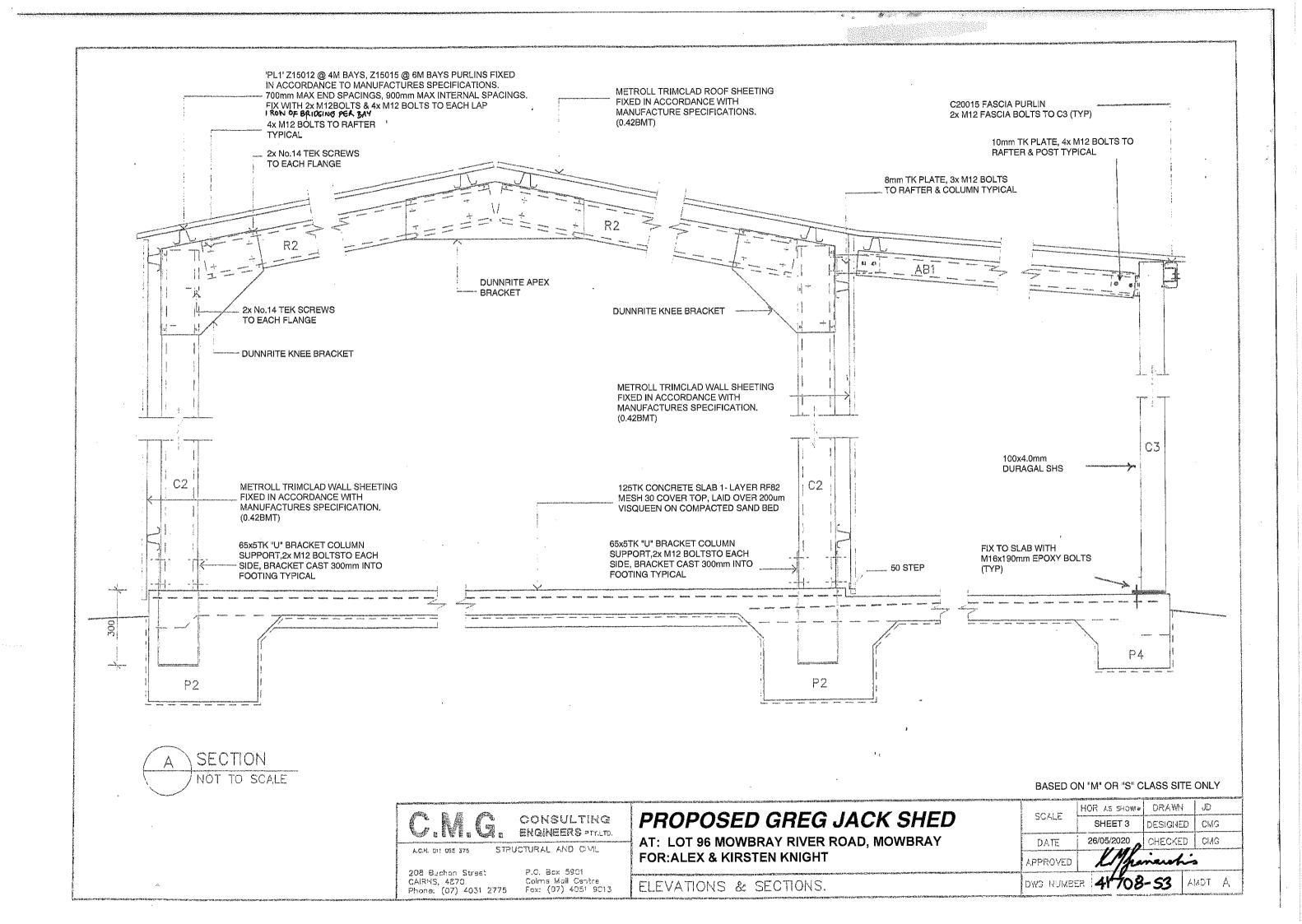
WG1

1,

ELEVATION

AT: LOT 96 MOWBRAY RIVER ROAD, MOWBRAY FOR:ALEX & KIRSTEN KNIGHT

ELEVATIONS





# Appendix 3.

# PLANNING BENCHMARK ASSESSMENT



#### 6.2.11 Rural residential zone code

# 6.2.11.1 Application

- (1) This code applies to assessing development in the Rural residential zone.
- (2) When using this code, reference should be made to Part 5.

# 6.2.11.2 Purpose

- (1) The purpose of the Rural residential zone code is to provide for rural residential development on large lots where infrastructure and services may not be provided on the basis that the intensity of development within the zone is dispersed.
- (2) The local government purpose of the code is to:
  - (a) implement the policy direction set in the Strategic Framework, in particular:
  - (i) Theme 1: Settlement pattern, Element 3.4.6 Rural residential areas, Element 3.4.7 Mitigation of hazards.
  - (ii) Theme 2: Environment and landscape values, Element 3.5.5 Scenic amenity.
  - (iii) Theme 6: Infrastructure and transport, Element 3.9.2 Energy, Element 3.9.3 Water and waste management.
  - (b) provide for dwellings on lots generally larger than 4000m<sup>2</sup>:
  - (c) provide protection to areas of ecological significance and scenic amenity significance where present.
- (3) The purpose of the code will be achieved through the following overall outcomes:



- (a) Development is predominantly for detached dwelling houses on large lots catering for hobby-farm living requiring limited infrastructure and services.
- (b) Development preserves the environmental, scenic amenity and topographical features of the land by integrating an appropriate scale of residential activities among these features.
- (c) Development provides a high level of residential amenity.
- (d) Development provides for the safe use of on-site wastewater treatment systems for effluent disposal with systems designed for varied soil type, slopes and prolonged periods of wet weather.

Editor's note - Reticulated sewerage is not generally available and is not required to be provided.

#### 6.2.11.3 Criteria for assessment

Table 6.2.11.3.a - Rural residential zone code - assessable development

Performance outcomes	Acceptable outcomes	Compliance
For self-assessable and assessable development		
PO1	AO1.1	Complies with AO1.1
The height of buildings is compatible with the rural residential character of the area and must not detrimentally impact on visual landscape amenity.	Dwelling houses are not more than 8.5 metres in height.  Note – Height is inclusive of roof height.	The proposed Dwelling House would have a height of less than 8.5 metres.



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Performance outcomes	Acceptable outcomes	Compliance
PO2	AO2	Complies with AO2
Buildings and structures are setback to maintain the rural residential character of the area and achieve separation from buildings on adjoining properties.	Buildings are setback not less than:  (a) 40 metres from a property adjoining a State controlled road;  (b) a minimum of 25 metres from the property boundary adjoining Cape Tribulation Road;  (c) 20 metres from front boundaries;  (d) 6 metres from side and rear property boundaries.	The proposed Dwelling House and Shed would be setback a minimum of 6 metres from side and rear boundaries.
PO3	AO3.1	Complies with AO3.1
Building scale is compatible with the rural residential character of the area and must not detrimentally impact on visual landscape amenity.	The maximum building footprint of all buildings and structures (including outbuildings) contained on a lot does not exceed 500m <sup>2</sup> .	The footprint of all buildings on the site would be approximately 480m <sup>2</sup> .
	AO3.2	Complies with PO3
	An outbuilding used for purposes ancillary to a dwelling house has maximum site coverage not	The proposed development would comprise a shed with a footprint of 180m², which is in excess



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Performance outcomes	Acceptable outcomes	Compliance
	greater than 20% of the total building footprint specified in AO3.1 above.	of the 100m² identified as an Acceptable Outcome.
		Notwithstanding that the shed exceeds the amount identified as an Acceptable Outcome, it is consistent with the size of other outbuildings in the area. This includes the outbuildings on lot 95 and lot 94. It would also be located in an area that is not visible from vantage points external to the site and would not adversely affect the visual landscape amenity.
PO4	AO4	Able to comply with AO4
Buildings/structures are designed to maintain the rural residential character of the area.	White and shining metallic finishes are avoided on external surfaces of buildings.	The external materials are yet to be determined. To ensure compliance, Council are invited to attach a condition to any approval granted.
For assessable development		
PO5	AO5	Not Applicable
The establishment of uses is consistent with the outcomes sought for the Rural residential zone	Uses identified in Table 0.a are not established in the Rural residential zone.	



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Performance outcomes	Acceptable outcomes	Compliance
and protects the zone from the intrusion of inconsistent uses.		The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO6	AO5	Not Applicable
Existing native vegetation along watercourses and, in or adjacent to areas of environmental value, or areas of remnant vegetation of value is protected.	No acceptable outcomes are prescribed.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO7	A07	Not Applicable
Development is located, designed, operated and managed to respond to the characteristics, features and constraints of the site and surrounds.  Note- planning scheme policy – site assessments provides guidance on identifying the characteristics, features and constraints of a site and its surrounds.	No acceptable outcomes are prescribed.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO8	AO8	Not Applicable
	No acceptable outcomes are prescribed.	



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Performance outcomes	Acceptable outcomes	Compliance
Development does not adversely impact on the Rural residential character and amenity of the area in terms of traffic, noise, dust, odour, lighting or other physical or environmental impacts.		The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO9	AO9	Not Applicable
New lots contain a minimum area of 4000m², incorporating:  (a) a minimum of contiguous area of 2000m² exclusive of 1 in 6 (16.6%) gradients, with a minimum dimension of 20 metres; (b) sufficient area to cater for on-site waste water management systems.  Note – Acceptable on-site waste disposal is to be demonstrated in a report prepared by a suitably qualified professional.	No acceptable outcomes are prescribed.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO10	AO10	Not Applicable
	No acceptable outcomes are prescribed.	



Performance outcomes	Acceptable outcomes	Compliance
New lots have a minimum road frontage of 30 metres		The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO11  New lots contain a 40 metre x 50 metre rectangle	AO11  No acceptable outcomes are prescribed.	Not Applicable  The proposed development is not identified as
		Assessable Development in the Tables of Assessment.

# Table 0.a — Inconsistent uses within the Rural residential zone.

Inconsistent uses		
Adult store	Indoor sport and recreation	Port services
Air services	Intensive animal industry	Relocatable home park
Agricultural supplies store	Intensive horticulture	Renewable energy facility
Bar	Low impact industry	Research and technology industry
Brothel	Major electricity infrastructure	Residential care facility
Bulk landscape supplies	Major sport, recreation and entertainment	Resort complex
Car wash	facility	Retirement facility
Cemetery	Marine industry	Rooming accommodation



- Community care centre
- Community residence
- Crematorium
- Club
- Detention facility
- Dual occupancy
- Educational establishment
- Food and drink outlet
- Funeral parlour
- Garden centre
- Hardware and trade supplies
- Health care services
- High impact industry
- Hospital
- Hotel

- Market
- Medium impact industry
- Motor sport facility
- Multiple dwelling
- Nightclub entertainment facility
- Non-resident workforce accommodation
- Office
- Outdoor sales
- Outstation
- Parking station
- Outdoor sport and recreation
- Parking station
- Permanent plantation
- Place of worship

- Rural industry
- Rural workers accommodation
- Service industry
- Service Station
- Shop
- Shopping centre
- Short-term accommodation
- Showroom
- Special industry
- Theatre
- Tourist attraction
- Tourist park
- Transport depot
- Warehouse,
- Winery

Note – This table does not imply that all other uses not listed in the table are automatically consistent uses within the zone. Assessable development must still demonstrate consistency through the assessment process.



# 8.2.2 Bushfire hazard overlay code

Note - Land shown on the bushfire hazard overlay map is designated as the bushfire prone area for the purposes of section 12 of the Building Regulations 2006. The bushfire hazard area (bushfire prone area) includes land covered by the high and medium hazard areas as well as the buffer area category on the overlay map.

## 8.2.2.1 Application

- (1) This code applies to assessing a material change of use, reconfiguring a lot, operational works or building work in the Bushfire hazard overlay, if:
  - (a) self-assessable or assessable where the code is identified as being applicable in the Assessment criteria for the Overlay Codes contained in the Levels of Assessment Tables in section 5.6;
  - (b) impact assessable development.
- (2) Land in the Bushfire hazard overlay is identified on the Bushfire hazard overlay map in Schedule 2 and includes the following sub-categories:
  - (a) Medium bushfire risk sub-category;
  - (b) High bushfire risk sub-category;
  - (c) Very high bushfire risk sub-category;
  - (d) Potential impact buffer sub-category.
- (3) When using this code, reference should be made to Part 5.

#### 8.2.2.2 Purpose

- (1) The purpose of the Bushfire overlay code is to:
  - (a) implement the policy direction in the Strategic Framework, in particular:
    - (i) Theme 1 Settlement pattern: Element 3.4.7 Mitigation of hazards;



- (ii) Theme 6 Infrastructure and transport: Element 3.9.2 Energy.
- (b) enable an assessment of whether development is suitable on land within the Bushfire risk overlay sub-categories.
- (2) The purpose of the code will be achieved through the following overall outcomes:
  - (a) development avoids the establishment or intensification of vulnerable activities within or near areas that are subject to bushfire hazard;
  - (b) development is designed and located to minimise risks to people and property from bushfires;
  - (c) bushfire risk mitigation treatments are accommodated in a manner that avoids or minimises impacts on the natural environment and ecological processes;
  - (d) development involving the manufacture or storage of hazardous materials does not increase the risk to public safety or the environment in a bushfire event;
  - (e) development contributes to effective and efficient disaster management response and recovery capabilities.

Note - A site based assessment may ground-truth the extent of hazardous vegetation and extent and nature of the bushfire hazard area (bushfire prone area). Such assessments should be undertaken using the methodology set out in Planning scheme policy SC6.9 - Natural Hazards.



# 8.2.2.3 Criteria for assessment Table 8.2.2.3.a– Bushfire hazard overlay code –assessable development

Performance outcomes	Acceptable outcomes	Compliance	
For self-assessable and assessable development			
Compatible development	Compatible development		
PO1 A vulnerable use is not established or materially intensified within a bushfire hazard area (bushfire prone area) unless there is an overriding need or other exceptional circumstances.  Note - See the end of this code for examples of vulnerable uses.	Vulnerable uses are not established or expanded.  Note – Where, following site inspection and consultation with Council, it is clear that the mapping is in error in identifying a premises as being subject to a medium, high, very high bushfire hazard or potential impact buffer sub-category, Council may supply a letter exempting the need for a Bushfire Management Plan.  Note – Where the assessment manager has not previously approved a Bushfire Management Plan (either by condition of a previous development approval), the development proponent will be expected to prepare such a plan.  Note – Planning scheme policy SC6.9 - Natural	Not applicable The proposed development does not involve a vulnerable use.	



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Performance outcomes	Acceptable outcomes	Compliance
	Bushfire Management Plan.	
PO2 Emergency services and uses providing community support services are able to function effectively during and immediately after a bushfire hazard event.	AO2 Emergency Services and uses providing community support services are not located in a bushfire hazard sub-category and have direct access to low hazard evacuation routes.	Not applicable The proposal does not involve an emergency service.
PO3  Development involving hazardous materials manufactured or stored in bulk is not located in bushfire hazard sub-category.	AO3  The manufacture or storage of hazardous material in bulk does not occur within bushfire hazard subcategory.	Not applicable The proposal does not involve hazardous materials.
Development design and separation from bushfire hazard – reconfiguration of lots		
PO4.1 Where reconfiguration is undertaken in an urban area or is for urban purposes or smaller scale rural residential purposes, a separation distance from hazardous vegetation is provided to achieve a radiant heat flux level of 29kW/m² at the edge of	AO4.1  No new lots are created within a bushfire hazard sub-category.  or	Not applicable The proposal does not involve a reconfiguration.



Performance outcomes	Acceptable outcomes	Compliance
the proposed lot(s).		
Note - "Urban purposes" and "urban area" are defined in the <i>Sustainable Planning Regulations 2009</i> .  Reconfiguration will be taken to be for rural residential purposes where proposed lots are between 2000m² and 2ha in area. "Smaller scale" rural residential purposes will be taken to be where the average proposed lot size is 6000m² or less.  Note - The radiant heat levels and separation distances are to be established in accordance with method 2 set out in AS3959-2009.		
PO4.2 Where reconfiguration is undertaken for other purposes, a building envelope of reasonable dimensions is provided on each lot which achieves radiant heat flux level of 29kW/m² at any point.	AO4.2  Lots are separated from hazardous vegetation by a distance that:  (a) achieves radiant heat flux level of 29kW/m² at all boundaries; and  (b) is contained wholly within the development site.  Note - Where a separation distance is proposed to be achieved by utilising existing cleared developed areas	Not applicable The proposal does not involve a reconfiguration



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Performance outcomes	Acceptable outcomes	Compliance
	external to the site, certainty must be established (through tenure or other means) that the land will remain cleared of hazardous vegetation.  For staged developments, temporary separation distances, perimeter roads or fire trails may be absorbed as part of subsequent stages.  Note - The achievement of a cleared separation distance may not be achievable where other provisions within the planning scheme require protection of certain ecological, slope, visual or character features or functions.	
Where reconfiguration is undertaken in an urban area or is for urban purposes, a constructed perimeter road with reticulated water supply is established between the lots and the hazardous vegetation and is readily accessible at all times for urban fire fighting vehicles. The access is available for both fire fighting and maintenance/defensive works.	AO5.1  Lot boundaries are separated from hazardous vegetation by a public road which:  (a) has a two lane sealed carriageway; (b) contains a reticulated water supply; (c) is connected to other public roads at both ends and at intervals of no more than 500m; (d) accommodates geometry and turning radii in accordance with Queensland Fire and Emergency Services' Fire Hydrant and Vehicle	Not applicable The proposal does not involve a reconfiguration



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Performance outcomes	Acceptable outcomes	Compliance
	Access Guidelines;  (e) has a minimum of 4.8m vertical clearance above the road;  (f) is designed to ensure hydrants and water access points are not located within parking bay allocations; and  (g) incorporates roll-over kerbing.	
	AO5.2  Fire hydrants are designed and installed in accordance with AS2419.1 2005, unless otherwise specified by the relevant water entity.  Note - Applicants should have regard to the relevant standards set out in the reconfiguration of a lot code and works codes in this planning scheme.	Not applicable The proposal does not involve a reconfiguration
PO6 Where reconfiguration is undertaken for smaller scale rural residential purposes, either a constructed perimeter road or a formed, all weather fire trail is established between the lots	AO6 Lot boundaries are separated from hazardous vegetation by a public road or fire trail which has:  (a) a reserve or easement width of at least 20m; (b) a minimum trafficable (cleared and formed)	Not applicable The proposal does not involve a reconfiguration



Performance outcomes	Acceptable outcomes	Compliance
and the hazardous vegetation and is readily accessible at all times for the type of fire fighting vehicles servicing the area. The access is available for both fire fighting and maintenance/hazard reduction works.	width of 4m capable of accommodating a 15 tonne vehicle and which is at least 6m clear of vegetation;  (c) no cut or fill embankments or retaining walls adjacent to the 4m wide trafficable path;  (d) a minimum of 4.8m vertical clearance;  (e) turning areas for fire-fighting appliances in accordance with Queensland Fire and Emergency Services' Fire Hydrant and Vehicle Access Guidelines;  (f) a maximum gradient of 12.5%;  (g) a cross fall of no greater than 10 degrees;  (h) drainage and erosion control devices in accordance with the standards prescribed in a planning scheme policy;  (i) vehicular access at each end which is connected to the public road network at intervals of no more than 500m;  (j) designated fire trail signage;  (k) if used, has gates locked with a system authorised by Queensland Fire and Emergency	



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Performance outcomes	Acceptable outcomes	Compliance
	Services; and  (I) if a fire trail, has an access easement that is granted in favour of Council and Queensland Fire and Emergency Services.	
Where reconfiguration is undertaken for other purposes, a formed, all weather fire trail is provided between the hazardous vegetation and either the lot boundary or building envelope, and is readily accessible at all times for the type of fire fighting vehicles servicing the area. However, a fire trail will not be required where it would not serve a practical fire management purpose.	Lot boundaries are separated from hazardous vegetation by a public road or fire trail which has:  (a) a reserve or easement width of at least 20m; (b) a minimum trafficable (cleared and formed) width of 4m capable of accommodating a 15 tonne vehicle and which is at least 6m clear of vegetation; (c) no cut or fill embankments or retaining walls adjacent to the 4m wide trafficable path; (d) a minimum of 4.8m vertical clearance; (e) turning areas for fire-fighting appliances in accordance with Queensland Fire and Emergency Services' Fire Hydrant and Vehicle Access Guidelines; (f) a maximum gradient of 12.5%;	Not applicable The proposal does not involve a reconfiguration



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Performance outcomes	Acceptable outcomes	Compliance
	<ul> <li>(g) a cross fall of no greater than 10 degrees;</li> <li>(h) drainage and erosion control devices in accordance with the standards prescribed in a planning scheme policy;</li> <li>(i) vehicular access at each end which is connected to the public road network;</li> <li>(j) designated fire trail signage;</li> <li>(k) if used, has gates locked with a system authorised by Queensland Fire and Emergency Services; and</li> <li>(l) if a fire trail, has an access easement that is granted in favour of Council and Queensland Fire and Emergency Services.</li> </ul>	
PO8  The development design responds to the potential threat of bushfire and establishes clear evacuation routes which demonstrate an acceptable or tolerable risk to people.	AO8 The lot layout:  (a) minimises the length of the development perimeter exposed to, or adjoining hazardous vegetation;  (b) avoids the creation of potential bottle-neck points in the movement network;	Not applicable The proposal does not involve a reconfiguration



Performance outcomes	Acceptable outcomes	Compliance
	<ul> <li>(c) establishes direct access to a safe assembly /evacuation area in the event of an approaching bushfire; and</li> <li>(d) ensures roads likely to be used in the event of a fire are designed to minimise traffic congestion.</li> </ul>	
	Note - For example, developments should avoid finger-like or hour-glass subdivision patterns or substantive vegetated corridors between lots.  In order to demonstrate compliance with the performance outcome, a bushfire management plan prepared by a suitably qualified person may be required. The bushfire management plan should be developed in accordance with the Public Safety Business Agency (PSBA) guideline entitled "Undertaking a Bushfire Protection Plan.  Advice from the Queensland Fire and Emergency Services (QFES) should be sought as appropriate	
PO9 Critical infrastructure does not increase the	AO9 Critical or potentially hazardous infrastructure such as water supply, electricity, gas and	Not applicable  The proposal does not involve a reconfiguration



Performance outcomes	Acceptable outcomes	Compliance
potential bushfire hazard.	telecommunications are placed underground.	
Development design and separation from bushfi	re hazard – material change of use	
PO10  Development is located and designed to ensure proposed buildings or building envelopes achieve a radiant heat flux level at any point on the building or envelope respectively, of:  (e) 10kW/m² where involving a vulnerable use; or (f) 29kW/m² otherwise.  The radiant heat flux level is achieved by separation unless this is not practically achievable.  Note - The radiant heat levels and separation distances	AO10  Buildings or building envelopes are separated from hazardous vegetation by a distance that:  (a) achieves a radiant heat flux level of at any point on the building or envelope respectively, of 10kW/m² for a vulnerable use or 29kW/m² otherwise; and  (b) is contained wholly within the development site.  Note - Where a separation distance is proposed to be achieved by utilising existing cleared developed areas external to the site, certainty must be established	Complies with AO10  The proposed development would be separated from hazardous vegetation by an easement for electricity supply purposes and the building setbacks, result in a separation of approximately 20 metres.
are to be established in accordance with method 2 set out in AS3959-2009.	(through tenure or other means) that the land will remain cleared of hazardous vegetation.  For staged developments, temporary separation distances, perimeter roads or fire trails may be absorbed as part of subsequent stages.  Note - The achievement of a cleared separation	



Performance outcomes	Acceptable outcomes	Compliance
	distance may not be achievable where other provisions within the planning scheme require protection of certain ecological, slope, visual or character features or functions.	
PO11 A formed, all weather fire trail is provided between the hazardous vegetation and the site boundary or building envelope, and is readily accessible at all times for the type of fire fighting vehicles servicing the area. However, a fire trail will not be required where it would not serve a practical fire management purpose.  Note - Fire trails are unlikely to be required where a development site involves less than 2.5ha	AO11 Development sites are separated from hazardous vegetation by a public road or fire trail which has:  (a) a reserve or easement width of at least 20m; (b) a minimum trafficable (cleared and formed) width of 4m capable of accommodating a 15 tonne vehicle and which is at least 6m clear of vegetation; (c) no cut or fill embankments or retaining walls adjacent to the 4m wide trafficable path; (d) a minimum of 4.8m vertical clearance; (e) turning areas for fire-fighting appliances in accordance with Queensland Fire and Emergency Services' Fire Hydrant and Vehicle	Complies with AO11  The development site would be separated from the hazardous vegetation by an access easement and building setbacks that are approximately 20 metres in width and do not require fill or excavation and can accommodate emergency service vehicles.



Performance outcomes	Acceptable outcomes	Compliance
	Access Guidelines;  (f) a maximum gradient of 12.5%;  (g) a cross fall of no greater than 10 degrees;  (h) drainage and erosion control devices in accordance with the standards prescribed in a planning scheme policy;  (i) vehicular access at each end which is connected to the public road network which is connected to the public road network at intervals of no more than 500m;  (j) designated fire trail signage;  (k) if used, has gates locked with a system authorised by Queensland Fire and Emergency Services; and  (l) if a fire trail, has an access easement that is granted in favour of Council and Queensland Fire and Emergency Services.	
All development		
PO12	AO12	Complies with PO12



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Performance outcomes	Acceptable outcomes	Compliance
All premises are provided with vehicular access that enables safe evacuation for occupants and easy access by fire fighting appliances.	Private driveways:  (a) do not exceed a length of 60m from the street to the building;  (b) do not exceed a gradient of 12.5%;  (c) have a minimum width of 3.5m;  (d) have a minimum of 4.8m vertical clearance;  (e) accommodate turning areas for fire-fighting appliances in accordance with Queensland Fire and Emergency Services' Fire Hydrant and Vehicle Access Guidelines; and  (f) serve no more than 3 dwellings or buildings.	The proposal would use existing access easement that has previously been accepted by Council as part of the reconfiguration that created the application site and no new access is proposed.
PO13  Development outside reticulated water supply areas includes a dedicated static supply that is available solely for fire fighting purposes and can be accessed by fire fighting appliances.	AO13 A water tank is provided within 10m of each building (other than a class 10 building) which:  (a) is either below ground level or of non-flammable construction;  (b) has a take off connection at a level that allows the following dedicated, static water supply to be left available for access by fire fighters:	Not applicable The site is within the reticulated water supply area.



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Performance outcomes	Acceptable outcomes	Compliance
	(i) 10,000l for residential buildings	
	Note – A minimum of 7,500l is required in a tank and the extra 2,500l may be in the form of accessible swimming pools or dams.	
	(ii) 45,000l for industrial buildings; and (iii) 20,000l for other buildings;	
	<ul> <li>(c) includes shielding of tanks and pumps in accordance with the relevant standards;</li> <li>(d) includes a hardstand area allowing medium rigid vehicle (15 tonne fire appliance) access within 6m of the tank;</li> <li>(e) is provided with fire brigade tank fittings – 50mm ball valve and male camlock coupling and, if underground, an access hole of 200mm (minimum) to accommodate suction lines; and</li> <li>(f) is clearly identified by directional signage provided at the street frontage.</li> </ul>	
PO14	AO14 Landscaping uses species that are less likely to	Not applicable
Landscaping does not increase the potential	Landscaping uses species that are less likely to	No landscaping is proposed as part of this



Performance outcomes	Acceptable outcomes	Compliance
bushfire risk.	exacerbate a bushfire event and does not increase fuel loads within separation areas.	application.
PO15  The risk of bushfire and the need to mitigate that risk is balanced against other factors (such as but not limited to, biodiversity or scenic amenity).	AO15 Bushfire risk mitigation treatments do not have a significant impact on the natural environment or landscape character of the locality where this has value.	Not applicable  No bushfire risk mitigation treatments are proposed.



#### 8.2.5 Hillslopes overlay code

## 8.2.5.1 Application

- (1) This code applies to assessing a material change of use, reconfiguring a lot, operational work or building work within the Hillslopes overlay, if:
  - (a) self assessable or assessable development where the code is identified as being applicable in the Assessment criteria for the Overlay Codes contained in the Levels of Assessment Tables in section 5.6:
  - (b) impact assessable development.
- (2) Land in the Hillslopes overlay is identified on the Hillslopes overlay map in Schedule 2 and includes the following sub-categories:
  - (a) Hillslopes constraint sub-category.
- (3) When using this code, reference should be made to Part 5.

## 8.2.5.2 Purpose

- (1) The purpose of the Hillslopes overlay code is to:
  - (a) implement the policy direction in the Strategic Framework, in particular:
    - (i) Theme 1 Settlement pattern: Element 3.4.7 Mitigation of hazards;
    - (ii) Theme 2 Environment and landscape values: Element 3.5.5 Scenic amenity.
  - (b) enable an assessment of whether development is suitable on land within the Hillslopes sub-categories.
- (2) The purpose of the code will be achieved through the following overall outcomes:



- (a) development on hillslopes is safe, serviceable and accessible;
- (b) the ecological values, landscape character and visual quality of the hillslopes are protected from development so as to retain the scenic backdrop to the region;
- (c) Development on hillslopes is appropriate, having regard to the topographic constraints and environmental characteristics of the land;
- (d) Development responds to the constraints of the site including gradient and slope stability;
- (e) Works do not involve complex engineering solutions.

#### 8.2.5.3 Criteria for assessment

Table 8.2.5.3.a- Hillslopes overlay code -assessable development

Performance outcomes	Acceptable outcomes	Compliance	
For self-assessable development			
PO1	AO1.1	Complies with PO1	
The landscape character and visual amenity quality of hillslopes areas is retained to protect the scenic backdrop to the region.	Development is located on parts of the site that are not within the Hillslopes constraint subcategory as shown on the Hillslopes overlay Maps contained in schedule 2.	Part of the site is located within the Hillslopes Overlay and the proposed shed would be located, in part, within the Hillslopes Overlay.  Notwithstanding, the site is a cleared site with a gentle slope. The development would not be visible from vantage points external to the site and the proposed development would not affect the	



Performance outcomes	Acceptable outcomes	Compliance
		scenic backdrop of the region.
For assessable development		
PO2	AO2.1	Not applicable
The landscape character and visual amenity quality of hillslopes areas is retained to protect the scenic backdrop to the region	Development does not occur on land with a gradient in excess of 1 in 6 (16.6%) or AO2.2 Where development on land steeper than 1 in 6 (16.6%) cannot be avoided, development follows the natural contours of the site.	The proposed development is self-assessable in the Rural Residential Zone.
	AO2.3	Not applicable
	Access ways and driveways are:  (a) constructed with surface materials that blend with the surrounding environment; (b) landscaped with dense planting to minimise the visual impact of the construction; (c) provided with erosion control measures immediately after construction.	The proposed development is self-assessable in the Rural Residential Zone.



Performance outcomes	Acceptable outcomes	Compliance
	AO2.4	Not applicable
	The clearing or disturbance of vegetation is limited to clearing and disturbance that:	The proposed development is self-assessable in the Rural Residential Zone.
	<ul> <li>(a) is necessary for the construction of driveways;</li> <li>(b) is necessary to contain the proposed development;</li> <li>(c) minimises canopy clearing or disturbance;</li> <li>(d) minimises riparian clearing or disturbance.</li> </ul>	
	AO2.5	Not applicable
	On land with slopes greater than 1 in 6 (16.6%) or greater, alternative construction methods to concrete slab on ground are utilised (i.e. split level or post and beam constructed buildings that minimise modification to the natural terrain of the land).	The proposed development is self-assessable in the Rural Residential Zone.



Performance outcomes	Acceptable outcomes	Compliance
	AO2.6	Not applicable
	Development does not alter the sky line.	The proposed development is self-assessable in the Rural Residential Zone.
	AO2.7	Not applicable
	Buildings and structures:  (a) are finished predominantly in the following exterior colours or surfaces:  (i) moderately dark to darker shades of olive green, brown, green, blue, or charcoal; or  (ii) moderately dark to darker wood stains that blend with the colour and hues of the surrounding vegetation and landscape;  (b) are not finished in the following exterior colours or surfaces:	The proposed development is self-assessable in the Rural Residential Zone.



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Performance outcomes	Acceptable outcomes	Compliance
	(i) pastel or terracotta colours, reds, yellows, shades of white or beige, or other bright colours that do not blend with the surrounding vegetation and landscape;  (ii) reflective surfaces.	
	AO2.8	Not applicable
	Exterior colour schemes limit the use of white or other light colours to exterior trim and highlighting of architectural features	The proposed development is self-assessable in the Rural Residential Zone.
	AO2.9	Not applicable
	Areas between the first floor (including outdoor deck areas) and ground level are screened from view.	The proposed development is self-assessable in the Rural Residential Zone.
	AO2.10	Not applicable
	Recreational or ornamental features (including tennis courts, ponds or swimming pools) do not	The proposed development is self-assessable in the Rural Residential Zone.



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Performance outcomes	Acceptable outcomes	Compliance
	occur on land:  (a) with a gradient of 1 in 6 (16.6%) or more;  (b) are designed to be sited and respond to the natural constraints of the land and require minimal earthworks.	
PO3	AO3	Not applicable
Excavation or filling does not have an adverse impact on the amenity, safety, stability or function of the site or adjoining premises through:  (a) loss of privacy; (b) loss of access to sunlight; (c) intrusion of visual or overbearing impacts; (d) complex engineering solutions.	<ul> <li>(a) is not more than 1.2 metres in height for each batter or retaining wall;</li> <li>(b) is setback a minimum of 2 metres from property boundaries;</li> <li>(c) is stepped with a minimum 2 metre wide berm to incorporate landscaping in accordance with Planning scheme policy SC6.7 – Landscaping;</li> <li>(d) does not exceed a maximum of 3 batters and 3 berms (i.e. not greater than 3.6</li> </ul>	The proposed development is self-assessable in the Rural Residential Zone.



Performance outcomes	Acceptable outcomes	Compliance
	metres in height) on any one lot.	
Lot reconfiguration		
PO4	AO4.1	Not applicable
For development that involves reconfiguring a lot, lot layout and design is responsive to the natural constraints of the land and each lot is capable of being used for its intended purpose.	The frontage and depth of all lots is of sufficient width to:  (a) allow driveways to follow the natural contours of the site and not exceed a gradient of 1 in 6 (16.6%);  (b) accommodate any changes in gradient between the road and lot within the lot boundary and not within the road reserve.	The proposal does not involve Reconfiguring a Lot.
	AO4.2	Not applicable
	Development does not create new lots containing land of greater than 1 in 6 (16.6%), except where a rectangular area of land of lesser grade is contained within the new lots to accommodate the	The proposal does not involve Reconfiguring a Lot.



Performance outcomes	Acceptable outcomes	Compliance
	intended land use, with the balance left in its natural state to the greatest extent possible. Note – The size of rectangular areas is outlined within each zone code.	
	AO4.3	Not applicable
	Development does not alter ridgelines.	The proposal does not involve Reconfiguring a Lot.
	AO4.4	Not applicable
	Lots are designed to ensure rooflines of future buildings and structures do not protrude above a ridgeline.	The proposal does not involve Reconfiguring a Lot.



#### 8.2.9 Potential landslide hazard overlay code

#### 8.2.9.1 Application

- (1) This code applies to assessing a material change of use, reconfiguring a lot, operational work or building work within the Potential landslide hazard overlay; if
  - (a) self-assessable or assessable development where the code is identified as being applicable in the Assessment criteria for the Overlay Codes contained in the Levels of Assessment Tables in section 5.6;
  - (b) impact assessable development.
- (2) Land in the Potential landslip hazard overlay is identified on the Potential landslide hazard overlay maps in Schedule 2 and includes the following subcategories:
  - (a) Places of potential landslide hazard sub-category.
- (3) When using this code, reference should be made to Part 5.

Note – The Potential landslide hazard overlay shows modelled areas where the factors contributing to landslip potential accumulate to provide a moderate or higher risk if certain factors are exacerbated (e.g. factors include significant vegetation clearing, filling and excavation, changes to soil characteristics, changes to overland water flow, or changes to sub-surface water flow). It shows areas that the Council has identified where landslides may occur and where land may be impacted by a landslide but does not mean that landslides will occur or that the land will be impacted by a landslide. Other areas not contained within the potential landslide hazard overlay may sustain landslides or be impacted by landslides and consideration should be given to this issue, where appropriate.



#### 8.2.9.2 Purpose

- (1) The purpose of the Potential landslide hazard overlay code is:
  - (a) implement the policy direction of the Strategic Framework, in particular:
    - (i) Theme 1: Settlement pattern Element 3.4.7 Mitigation of hazards.
  - (b) enable an assessment of whether development is suitable on land within the Potential landslip hazard overlay.
- (2) The purpose of the code will be achieved through the following overall outcomes:
  - (a) development is located, designed and constructed to not put at risk the safety of people, property and the environment;
  - (b) development is not at risk from and does not pose a risk to adjacent and nearby sites from landslides;
  - (c) ensures that community infrastructure is protected from the effects of potential landslides;
  - (d) ensures that vegetation clearing, stormwater management and filling and/or excavation does not create a landslide hazard and/or rectifies potential pre-existing landslide risks;
  - (e) development does not occur where works to provide a solution for safety of people, property or the environment involves complex engineering solutions to overcome the risk, or would result in a built form or outcome that causes an adverse visual impact on the Hillslopes or Landscape values of Douglas Shire.

#### 8.2.9.3 Criteria for assessment

Table 8.2.9.3.a - Potential landslide hazard overlay code -assessable development



Performance outcomes	Acceptable outcomes	Compliance
For self-assessable and assessable development		
PO1	AO1.1	Complies with AO1.1
The siting and design of development does not involve complex engineering solutions and does not create or increase the potential landslide hazard risk to the site or adjoining premises through:	Development is located on that part of the site not affected by the Potential landslide hazard overlay.  or  AO1.2	The proposed development would not be located on that part of the site affected by the Potential landslide hazard overlay.
<ul><li>(a) building design;</li><li>(b) increased slope;</li><li>(c) removal of vegetation;</li><li>(d) stability of soil;</li><li>(e) earthworks;</li></ul>	Development is on an existing stable, benched site and requires no further earthworks  or	
<ul><li>(f) alteration of existing ground water or surface water paths;</li><li>(g) waste disposal areas.</li></ul>	AO1.3 A competent person certifies that:	
	(a) the stability of the site, including associated buildings and infrastructure, will be maintained	



Performance outcomes	Acceptable outcomes	Compliance
	during the course of the development and will remain stable for the life of the development;  (b) development of the site will not increase the risk of landslide hazard activity on other land, including land above the site;  (c) the site is not subject to the risk of landslide activity on other land;  (d) any measures identified in a site-specific geotechnical report for stabilising the site or development have been fully implemented;  (e) development does not concentrate existing ground water and surface water paths;  (f) development does not incorporate on-site waste water disposal.	
	Note – Planning scheme policy SC6.9 – Natural hazards provides guidance on preparing a site specific geo-technical assessment.  Note – Development may alter the conditions of ground water and surface water paths in accordance with a	
	water and surface water paths in accordance with a site-specific geotechnical report, but should ensure that	



Performance outcomes	Acceptable outcomes	Compliance
	its final disbursement is as-per pre-developed conditions. Consideration for location, velocity, volume and quality should be given.	
PO2	AO2	Not applicable
The siting and design of necessary retaining structures does not cause an adverse visual impact on landscape character or scenic amenity quality of the area.	<ul> <li>(a) is not more than 1.2 metres in height for each batter or retaining wall;</li> <li>(b) is setback a minimum of 2 metres from property boundaries;</li> <li>(c) is stepped with a minimum 2 metre wide berm to incorporate landscaping in accordance with Planning scheme policy SC6.7 – Landscaping;</li> <li>(d) does not exceed a maximum of 3 batters and 3 berms (i.e. Not greater than 3.6 metres in height) on any one lot.</li> </ul>	No retaining structures are proposed.
Additional requirements for Community infrasti	ructure	1



Performance outcomes	Acceptable outcomes	Compliance
PO3	AO3	Not applicable
Development for community infrastructure:  (a) is not at risk from the potential landslide hazard areas;  (b) will function without impediment from a landslide;	Development is designed in accordance with the recommendations of a site-specific geotechnical assessment which makes reference to the community infrastructure and its needs and function.	No community infrastructure is proposed.
<ul> <li>(c) provides access to the infrastructure without impediment from the effects of a landslide;</li> <li>(d) does not contribute to an elevated risk of a landslide to adjoining properties.</li> </ul>	Note - A site specific geotechnical assessment will detail requirements that will address the Acceptable Outcomes of this Performance Outcome. Planning scheme policy SC6.9 – Natural hazards provides guidance on preparing a site specific geotechnical assessment.	



#### 9.3.8 Dwelling house code

#### 9.3.8.1 Application

- (1) This code applies to assessing development for a dwelling house if:
  - (a) self-assessable development or assessable development where this code identified in the assessment criteria column of a table of assessment; or
  - (b) impact assessable development.
- (2) When using this code, reference should be made to Part 5.

Note—Where the land is identified in an overlay map, additional provisions relating to that overlay also apply. For example, minimum floor levels for a dwelling house on a site subject to certain types of flooding are identified in the Flood and storm tide inundation overlay code.

Note – For a proposal to be self-assessable, it must meet all of the self-assessable outcomes of this code and any other applicable code. Where is does not meet all the self-assessable outcomes, the proposal becomes assessable development and a development application is required. Where a development application is triggered, only the specific acceptable outcomes that the proposal fails to meet need to be assessed against the corresponding performance outcomes. Other self-assessable outcomes that are met are not assessed as part of the development application.

#### 9.3.8.2 Purpose

- (1) The purpose of the Dwelling house code is to assess the suitability of development to which this code applies.
- (2) The purpose of the code will be achieved through the following overall outcomes:
  - (a) The dwelling house, including all habitable buildings on site, is occupied by a single household;
  - (b) A dwelling house, including a secondary dwelling or domestic out-buildings; ensures that the secondary dwelling is sub-ordinate to the primary dwelling house;



- (c) Development of a dwelling house provides sufficient and safe vehicle access and parking for residents;
- (d) The built form, siting, design and use of each dwelling is consistent with the desired neighbourhood character and streetscape elements of the area.

#### 9.3.8.3 Criteria for assessment

Table 9.3.8.3.a - Dwelling house code -assessable development

Performance outcomes	Acceptable outcomes	Compliance
For self-assessable and assessable development		
PO1	AO1	Not applicable
Secondary dwellings:	The secondary dwelling:	No Secondary Dwellings are proposed.
<ul><li>(a) are subordinate, small-scaled dwellings;</li><li>(b) contribute to a safe and pleasant living environment;</li><li>(c) are established on appropriately sized lots;</li><li>(d) do not cause adverse impacts on adjoining properties.</li></ul>	<ul> <li>(a) has a total gross floor area of not more than 80m², excluding a single carport or garage;</li> <li>(b) is occupied by 1 or more members of the same household as the dwelling house.</li> </ul>	



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Performance outcomes	Acceptable outcomes	Compliance
PO2	AO2	Complies with AO2
Resident's vehicles are accommodated on- site.	Development provides a minimum number of onsite car parking spaces comprising:	The proposed Dwelling House would provide two car parking spaces within the proposed shed.
	(a) 2 car parking spaces which may be in tandem for the dwelling house;	
	(b) 1 car parking space for any secondary dwelling on the same site.	
PO3	AO3	Complies with AO3
Development is of a bulk and scale that:	Development meets the acceptable outcome for	Refer to the assessment against the Rural
<ul><li>(a) is consistent with and complements the built form and front boundary setbacks prevailing in the street and local area;</li></ul>	building height in the applicable Zone code associated with the site.	Residential Zone code.
<ul><li>(b) does not create an overbearing development for adjoining dwelling houses and their private open space;</li></ul>		



Performance outcomes	Acceptable outcomes	Compliance
(c) does not impact on the amenity and privacy of residents in adjoining dwelling houses;		
(d) ensures that garages do not dominate the appearance of the street.		



#### 9.4.1 Access, parking and servicing code

#### 9.4.1.1 Application

- (1) This code applies to assessing:
  - (a) operational work which requires a compliance assessment as a condition of a development permit; or
  - (b) a material change of use or reconfiguring a lot if:
    - (i) self-assessable or assessable development where this code is identified in the assessment criteria column of the table of assessment;
    - (ii) impact assessable development, to the extent relevant.
- (2) When using this code, reference should be made to Part 5.

#### 9.4.1.2 Purpose

- (1) The purpose of the Access, parking and servicing code is to assess the suitability of access, parking and associated servicing aspects of a development.
- (2) The purpose of the code will be achieved through the following overall outcomes:
  - (a) sufficient vehicle parking is provided on-site to cater for all types of vehicular traffic accessing and parking on-site, including staff, guests, patrons, residents and short term delivery vehicles;
  - (b) sufficient bicycle parking and end of trip facilities are provided on-site to cater for customer and service staff;
  - (c) on-site parking is provided so as to be accessible and convenient, particularly for any short term uses;
  - (d) development provides walking and cycle routes through the site which link the development to the external walking and cycling network;
  - (e) the provision of on-site parking, loading / unloading facilities and the provision of access to the site do not impact on the efficient function of street network or on the area in which the development is located;
  - (f) new vehicular access points are safely located and are not in conflict with the preferred ultimate streetscape character and local character and do



not unduly disrupt any current or future on-street parking arrangements.

#### 9.4.1.3 Criteria for assessment

Table 9.4.1.3.a – Access, parking and servicing code –assessable development

Performance outcomes	Acceptable outcomes	Compliance
For self-assessable and assessable development		
PO1	AO1.1	Complies with AO1.1
Sufficient on-site car parking is provided to cater for the amount and type of vehicle traffic expected to be generated by the use or uses of the site, having particular regard to:  (a) the desired character of the area;  (b) the nature of the particular use and its specific	The minimum number of on-site vehicle parking spaces is not less than the number prescribed in Table 9.4.1.3.b for that particular use or uses.  Note - Where the number of spaces calculated from the table is not a whole number, the number of spaces provided is the next highest whole number.	Two car parking spaces would be provided in association with the proposed Dwelling House, within the proposed shed.
characteristics and scale; (c) the number of employees and the likely	AO1.2	Complies with AO1.2
number of visitors to the site;	Car parking spaces are freely available for the parking of vehicles at all times and are not used	Car parking spaces would be kept free for car parking.



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Performance outcomes	Acceptable outcomes	Compliance
<ul><li>(d) the level of local accessibility;</li><li>(e) the nature and frequency of any public</li></ul>	for external storage purposes, the display of products or rented/sub-leased.	
transport serving the area;  (f) whether or not the use involves the retention of an existing building and the previous requirements for car parking for the building  (g) whether or not the use involves a heritage	AO1.3  Parking for motorcycles is substituted for ordinary vehicle parking to a maximum level of 2% of total ordinary vehicle parking.	Not applicable  Not applicable to dwelling houses and secondary dwellings.
building or place of local significance;  (h) whether or not the proposed use involves the retention of significant vegetation.	AO1.4  For parking areas exceeding 50 spaces parking, is provided for recreational vehicles as a substitute for ordinary vehicle parking to a maximum of 5% of total ordinary vehicle parking rate.	Not applicable  Not applicable to dwelling houses and secondary dwellings.
PO2  Vehicle parking areas are designed and constructed in accordance with relevant standards.	Vehicle parking areas are designed and constructed in accordance with Australian Standard:	Complies with AO2  The car parking provision would satisfy the relevant Australian Standard.



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Performance outcomes	Acceptable outcomes	Compliance
PO3	<ul><li>(a) AS2890.1;</li><li>(b) AS2890.3;</li><li>(c) AS2890.6.</li></ul> AO3.1	Complies with AO3.1
Access points are designed and constructed:  (a) to operate safely and efficiently;  (b) to accommodate the anticipated type and volume of vehicles  (c) to provide for shared vehicle (including cyclists) and pedestrian use, where appropriate;	Access is limited to one access cross over per site and is an access point located, designed and constructed in accordance with:  (a) Australian Standard AS2890.1;  (b) Planning scheme policy SC6.5 – FNQROC Regional Development Manual - access crossovers.	Only the existing access approved as part of Reconfiguring a Lot would be used to provide access to the subject site.
(d) so that they do not impede traffic or pedestrian movement on the adjacent road area;	AO3.2  Access, including driveways or access crossovers:  (a) are not placed over an existing:	Complies with AO3.2  Access would be via an existing driveway.



Performance outcomes	Acceptable outcomes	Compliance
<ul> <li>(e) so that they do not adversely impact upon existing intersections or future road or intersection improvements;</li> <li>(f) so that they do not adversely impact current and future on-street parking arrangements;</li> <li>(g) so that they do not adversely impact on existing services within the road reserve adjacent to the site;</li> <li>(h) so that they do not involve ramping, cutting of the adjoining road reserve or any built</li> </ul>	<ul> <li>(i) telecommunications pit;</li> <li>(ii) stormwater kerb inlet;</li> <li>(iii) sewer utility hole;</li> <li>(iv) water valve or hydrant.</li> <li>(b) are designed to accommodate any adjacent footpath;</li> <li>(c) adhere to minimum sight distance requirements in accordance with AS2980.1.</li> </ul>	
structures (other than what may be necessary to cross over a stormwater channel).	AO3.3  Driveways are:  (a) designed to follow as closely as possible to the existing contours, but are no steeper than the gradients outlined in Planning scheme policy SC6.5 – FNQROC Regional Development Manual;	Complies with AO3.3  Access would be via an existing driveway.



Performance outcomes	Acceptable outcomes	Compliance
	(b) constructed such that where there is a grade shift to 1 in 4 (25%), there is an area with a grade of no more than 1 in in 6 (16.6%) prior to this area, for a distance of at least 5 metres;	
	(c) on gradients greater than 1 in 6 (16.6%) driveways are constructed to ensure the cross-fall of the driveway is one way and directed into the hill, for vehicle safety and drainage purposes;	
	<ul><li>(d) constructed such that the transitional change in grade from the road to the lot is fully contained within the lot and not within the road reserve;</li></ul>	
	(e) designed to include all necessary associated drainage that intercepts and directs storm water runoff to the storm water drainage system.	
	AO3.4	Complies with AO3.4



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Performance outcomes	Acceptable outcomes	Compliance
	Surface construction materials are consistent with the current or intended future streetscape or character of the area and contrast with the surface construction materials of any adjacent footpath.	The existing driveway would be constructed of gravel and sealed, where required, in accordance with the reconfiguring a lot approval that created the subject site.
PO4	AO4	Not applicable
Sufficient on-site wheel chair accessible car parking spaces are provided and are identified and reserved for such purposes.	The number of on-site wheel chair accessible car parking spaces complies with the rates specified in AS2890 Parking Facilities.	Not applicable to Dwelling Houses.
PO5	AO5	Not applicable
Access for people with disabilities is provided to the building from the parking area and from the street.	Access for people with disabilities is provided in accordance with the relevant Australian Standard.	Not applicable to Dwelling Houses.
PO6	AO6	Not applicable
Sufficient on-site bicycle parking is provided to cater for the anticipated demand generated by the development.	The number of on-site bicycle parking spaces complies with the rates specified in Table 9.4.1.3.c.	Not applicable to Dwelling Houses.



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Performance outcomes	Acceptable outcomes	Compliance
PO7	AO7.1	Not applicable
Development provides secure and convenient bicycle parking which:	Development provides bicycle parking spaces for employees which are co-located with end-of-trip	Not applicable to Dwelling Houses.
(a) for visitors is obvious and located close to the	facilities (shower cubicles and lockers);	
building's main entrance;	AO7.2	Not applicable
<ul> <li>(b) for employees is conveniently located to provide secure and convenient access between the bicycle storage area, end-of-trip facilities and the main area of the building;</li> </ul>	Development ensures that the location of visitor bicycle parking is discernible either by direct view or using signs from the street.	Not applicable to Dwelling Houses.
(c) is easily and safely accessible from outside	AO7.3	Not applicable
the site.	Development provides visitor bicycle parking which does not impede pedestrian movement.	Not applicable to Dwelling Houses.
PO8	AO8	Not applicable
Development provides walking and cycle routes through the site which:	Development provides walking and cycle routes which are constructed on the carriageway or through the site to:	Not applicable to Dwelling Houses.



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Performance outcomes	Acceptable outcomes	Compliance
<ul> <li>(a) link to the external network and pedestrian and cyclist destinations such as schools, shopping centres, open space, public transport stations, shops and local activity centres along the safest, most direct and convenient routes;</li> <li>(b) encourage walking and cycling;</li> <li>(c) ensure pedestrian and cyclist safety.</li> </ul>	<ul><li>(a) create a walking or cycle route along the full frontage of the site;</li><li>(b) connect to public transport and existing cycle and walking routes at the frontage or boundary of the site.</li></ul>	
PO9	AO9.1	Complies with AO9.1
Access, internal circulation and on-site parking for service vehicles are designed and constructed:  (a) in accordance with relevant standards;  (b) so that they do not interfere with the amenity	Access driveways, vehicle manoeuvring and onsite parking for service vehicles are designed and constructed in accordance with AS2890.1 and AS2890.2.	The proposed car parking would satisfy the relevant Australian Standard.
of the surrounding area;	AO9.2	Not applicable
	Service and loading areas are contained fully within the site.	Not applicable to Dwelling Houses.



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Performance outcomes	Acceptable outcomes	Compliance
(c) so that they allow for the safe and convenient	AO9.3	Not applicable
movement of pedestrians, cyclists and other vehicles.	The movement of service vehicles and service operations are designed so they:	Not applicable to Dwelling Houses.
	(a) do not impede access to parking spaces;	
	(b) do not impede vehicle or pedestrian traffic movement.	
PO10	AO10.1	Not applicable
Sufficient queuing and set down areas are provided to accommodate the demand generated by the development.	Development provides adequate area on-site for vehicle queuing to accommodate the demand generated by the development where drive through facilities or drop-off/pick-up services are proposed as part of the use, including, but not limited to, the following land uses:	Not applicable to Dwelling Houses.
	(a) car wash;	
	(b) child care centre;	
	(c) educational establishment where for a school;	



Performance outcomes	Acceptable outcomes	Compliance
	(d) food and drink outlet, where including a drive- through facility;	
	(e) hardware and trade supplies, where including a drive-through facility;	
	(f) hotel, where including a drive-through facility;	
	(g) service station.	
	AO10.2	Not applicable
	Queuing and set-down areas are designed and constructed in accordance with AS2890.1.	Not applicable to Dwelling Houses.



#### Filling and excavation code

#### 9.4.4.1 Application

- (1) This code applies to assessing:
  - (a) operational work for filling or excavation which is self-assessable or code assessable development if this code is an applicable code identified in the assessment criteria column of a table of assessment; or
  - (b) a material change of use or reconfiguring a lot if:
    - (i) assessable development where this code is identified as a prescribed secondary code in the assessment criteria column of a table of assessment; or
    - (ii) impact assessable development, to the extent relevant.

Note—This code does not apply to building work that is regulated under the Building Code of Australia.

(2) When using this code, reference should be made to Part 5.

#### 9.4.4.2 Purpose

- (1) The purpose of the Filling and excavation code is to assess the suitability of development for filling or excavation.
- (2) The purpose of the code will be achieved through the following overall outcomes:
  - (a) filling or excavation does not impact on the character or amenity of the site and surrounding areas;
  - (b) filling and excavation does not adversely impact on the environment;
  - (c) filling and excavation does not impact on water quality or drainage of upstream, downstream or adjoining properties;
  - (d) filling and excavation is designed to be fit for purpose and does not create land stability issues;
  - (e) filling and excavation works do not involve complex engineering solutions.



#### 9.4.4.3 Criteria for assessment

Table 9.4.4.3.a – Filling and excavation code – for self-assessable and assessable development

Performance outcomes	Acceptable outcomes	Compliance
For self-assessable and assessable development		
Filling and excavation - General		
PO1	AO1.1	Complies with AO1.1
All filling and excavation work does not create a detrimental impact on the slope stability, erosion potential or visual amenity of the site or the surrounding area.	The height of cut and/or fill, whether retained or not, does not exceed 2 metres in height.  and  Cuts in excess of those stated in A1.1 above are separated by benches/ terraces with a minimum width of 1.2 metres that incorporate drainage provisions and screen planting.	The proposed Dwelling House would be constructed on poles and the fill exercise to create suitable development pad for the proposed shed would not result in a height that exceeds 2.0 metres.
	AO1.2	Complies with AO1.2
	Cuts are supported by batters, retaining or rock walls and associated benches/terraces are	The minor fill would be supported by a batter .



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Performance outcomes	Acceptable outcomes	Compliance
	capable of supporting mature vegetation.	
	AO1.3	Complies with AO1.3
	Cuts are screened from view by the siting of the building/structure, wherever possible.	The minor batter would not be visible form vantage points external to the site.
	AO1.4	Complies with AO1.4
	Topsoil from the site is retained from cuttings and reused on benches/terraces.	The minor cut and fill exercise to create the pad for the shed would result in all soil being reused on the site.
	AO1.5	Complies with AO1.5
	No crest of any cut or toe of any fill, or any part of any retaining wall or structure is closer than 600mm to any boundary of the property, unless the prior written approval of the adjoining landowner has been obtained.	The toe of any fill would not be less than 6 metres from any boundary of the site.
	AO1.6	Complies with AO1.6



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Performance outcomes	Acceptable outcomes	Compliance
	Non-retained cut and/or fill on slopes are stabilised and protected against scour and erosion by suitable measures, such as grassing, landscaping or other protective/aesthetic measures.	The minor excavation would be grassed to protect against scouring.
Visual Impact and Site Stability		
PO2	AO2.1	Complies with AO1.2
Filling and excavation are carried out in such a manner that the visual/scenic amenity of the area and the privacy and stability of adjoining properties is not compromised.	The extent of filling and excavation does not exceed 40% of the site area, or 500m² whichever is the lesser, except that AO2.1 does not apply to reconfiguration of 5 lots or more.	The extent of fill would be less than 1% of the site.
	AO2.2	Complies with AO2.2
	Filling and excavation does not occur within 2 metres of the site boundary.	The fill would be more than 6 metres form any site boundary.
Flooding and drainage		



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Performance outcomes	Acceptable outcomes	Compliance
PO3	AO3.1	Complies with AO3.1
Filling and excavation does not result in a change to the run off characteristics of a site which then have a detrimental impact on the site or nearby	Filling and excavation does not result in the ponding of water on a site or adjacent land or road reserves.	The minor fill would be graded to ensure suitable drainage.
land or adjacent road reserves.	AO3.2	Complies with AO3.2
	Filling and excavation does not result in an increase in the flow of water across a site or any other land or road reserves.	The minor works would not result in a change to drainage characteristics.
	AO3.3	Complies with AO3.3
	Filling and excavation does not result in an increase in the volume of water or concentration of water in a watercourse and overland flow paths.	The minor works would not result in a change to drainage characteristics.
	AO3.4	Complies with AO3.4
	Filling and excavation complies with the specifications set out in Planning Scheme Policy	Assessment of the fill would be undertaken at the building certification stage and would have to



Performance outcomes	Acceptable outcomes	Compliance
	No SC5 – FNQROC Development Manual.	comply with the relevant requirements.
Water quality		
PO4	AO4	Complies with AO3.2
Filling and excavation does not result in a reduction of the water quality of receiving waters.	Water quality is maintained to comply with the specifications set out in Planning Scheme Policy No SC5 – FNQROC Development Manual.	The minor works would not result in a change to drainage characteristics.
Infrastructure		
PO5	AO5	Complies with AO5
Excavation and filling does not impact on Public Utilities.	Excavation and filling is clear of the zone of influence of public utilities.	The minor fill would not impact on any public utilities.



#### Appendix 4.

## **EFFLUENT DISPOSAL REPORT**



## **Site Classification**

## And

## Wastewater Management System

For

**A&K Knight** 

At

Lot 96 Mowbray River Road

Mowbray

Postal address: Earth Test, PO Box 1042, Tolga, Qld 4882. Phone: 4095 4734

e-mail: info@earthtest.com.au



#### **INTRODUCTION:**

Earth Test has been engaged by A&K Knight to assess, design and report on Site Classification and a Domestic Wastewater Management System at Lot 96 Mowbray River Road, Mowbray.

It is understood the intention is to construct a new dwelling at the site. A site and soil evaluation was carried out in March 2020.

#### **SITE FACTORS:**

The site was identified by its site address, a photo was taken to confirm the sites identity. The Lot has an area of 1.0 acre and is predominantly covered with grass and rainforest on the boundaries.

No visible rock outcrops where noted at the site. An intermittent watercourse flows on the Western boundary.

Two Dynamic Cone Penetrometer tests were performed at locations DCP1 and DCP2, two boreholes BH1 and BH2 and one constant head soil permeability test P1 as shown on the site plan.

Atterberg Limits tests were performed on a disturbed sample from Borehole1.



Site testing at Lot 96 Mowbray River Road, Mowbray

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## **SITE INVESTIGATION REPORT**

## **BOREHOLE LOG**

CLIENT: A&K Knight. DATE SAMPLED: 3/03/2020

PROJECT: Lot 96 Mowbray River Road,

Mowbray.

Sampled by: G. Negri & P. Weigand

**REPORT DATE:** 6/03/2020

**BOREHOLE No:** BH1

DOTEMOLE 1 (0) BIII		
DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.6	Brown Clay-Silt with Gravel Rock	Disturbed sample 0.4- 0.6m.  Watertable not encountered

**BOREHOLE No:** BH2

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.8	Brown Clay-Silt with Gravel	Watertable not encountered
0.8	Rock	

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## **ATTERBERG LIMITS TEST REPORT**

CLIENT: A&K Knight SAMPLE No: SI 105-20

**PROJECT:** Lot 96 Mowbray River Road, Mowbray DATE SAMPLED: 3/03/2020

**SAMPLE DETAILS:** BH1 0.4-0.6m **Sampled by:** G. Negri & P.

Weigand

**REPORT DATE:** 6/03/2020 **Tested By:** P. Weigand

TEST METHOD	RESULT
Liquid Limit: AS 1289.3.1.2	26%
Plastic Limit: AS 1289.3.2.1	19%
Plasticity Index: AS 1289.3.3.1	7%
Linear Shrinkage: AS 1289.3.4.1	5.0%
Length Of Mould:	250.2mm
Cracking, Crumbling, Curling, Number Of Breaks:	Nil
Sample History:	Air Dried
Preparation Method:	Dry Sieved
Insitu Moisture Content:	15.4%
% Passing 0.075mm:	



## **DYNAMIC CONE PENETROMETER REPORT AS 1289.6.3.2**

CLIENT: A&K Knight SAMPLE No: SI 105-20

**PROJECT:** Lot 96 Mowbray River Road, **DATE SAMPLED:** 3/03/2020

Mowbray.

Tested By: G. Negri & P. Weigand

**SAMPLE DETAILS:** Sites "DCP1 & DCP2" as per

site plan.

**REPORT DATE:** 6/03/2020

DEPTH	Site: DCP1	Site: DCP2
(Metres)	No Blows	No Blows
0.0 - 0.1	2	4
0.1 – 0.2	2	4
0.2 - 0.3	1	6
0.3 – 0.4	1	4
0.4 – 0.5	3	6
0.5 – 0.6	6	8
0.6 – 0.7	8	6
0.7 - 0.8	12	0
0.8 – 0.9	6	8
0.9 – 1.0	5	8
1.0 – 1.1	4	9
1.1 – 1.2	5	4
1.2 – 1.3	6	8
1.3 – 1.4	6	8
1.4 – 1.5		
1.5 – 1.6		
1.6 – 1.7		
1.7 – 1.8		
1.8 – 1.9		
1.9 – 2.0		



#### SITE CLASSIFICATION

#### Lot 96 Mowbray River Road, Mowbray.

The Dynamic Cone Penetrometer test results indicate adequate allowable bearing pressure to 1.5m.

The Atterberg Limits test results indicate a slightly reactive soil.

The characteristic surface movement  $(y_s)$  is estimated to be in the  $0 < y_s \le 20$ mm range. According to TABLE 2.3 of AS 2870-2011 the site must be classified **CLASS-"S"**.

To comply with the "Building Services Board Subsidence Policy" advice should be sought from a Registered Professional Engineer for footing design.

All site works must be carried out in accordance with AS 3798-2007 "Guidelines on earthworks for commercial and residential developments"

If the depth of any cut exceeds 0.5m or uncontrolled fill exceeds 0.4m the classification shall be reconsidered.

Because this investigation is limited in scope and extent, it is possible that areas may exist which differ from those shown on the test hole records and used in the site classification. Should any variation from the reported conditions be encountered during excavation work, this office must be notified immediately so that reappraisal of the classification can be made.

Gavin Negri Earth Test

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## **SITE AND SOIL EVALUATION**

#### Lot 96 Mowbray River Road, Mowbray.

The site and soil evaluation carried out on 03/03/2020 provided the following results.

#### **Site Assessment**

Site Factor Result

Slope 8° Residence/Shed, 3° LAA

Shape Linear-Planar

Aspect North and North-East

Exposure Moderate – Some shade from trees

Erosion/land slip Not noted. Boulders/rock outcrop Not noted

Vegetation Grass clearing in rainforest. Watercourse/Bores As shown on site plan.

Water table Not encountered during investigation. Fill Some uncontrolled fill at rear of LAA.

Flooding Not likely.
Channelled run-off Not found
Soil surface conditions Firm, Moist

Other site specific factors Nil

#### **Soil Assessment**

Soil Property	<b>Result</b>
Colour	Brown
Texture	Clay-Loam
Structure	Weak
Coarse Fragments	10%
Measured Permeability Ksat (m/d)	P1 = 0.73
Dispersion	Slakes
Soil Category	4
Resultant Design Load Rate, DLR (mm/day)	20



#### WASTEWATER MANAGEMENT SYSTEM

An "All-Waste" septic tank discharging into an "Advanced Enviro-Septic" bed is considered suitable for this site.

This system has been designed to conform to the requirements of the following codes, acts, regulations and standards. All work to be carried out in accordance with the following codes.

- AS/NZ 1547:2012 On-site domestic-wastewater management.
- Queensland PLUMBING AND DRAINAGE ACT 2018.
- Queensland STANDARD PLUMBING AND DRAINAGE REGULATION 2019.
- Queensland PLUMBING AND WASTEWATER CODE.

#### **SYSTEM SIZING FACTORS.**

A population equivalent of six (6) persons has been chosen for the proposed four bedroom dwelling.

The residence is connected to a bore water supply system.

Standard water-reduction fixtures <u>must</u> be used to ensure the integrity of the system. They shall include:-

- Dual flush 6/3 Litre water closets.
- Shower-flow restrictors.
- Aerator faucets (taps).
- Water-conserving automatic washing machines.

Note: - Garbage grinders are not permitted.

As per AS/NZ 1547:2012 Appendix H, Table H1 the "Typical wastewater design flow" for a "Reticulated water supply" gives a flow allowance of 150 L/Person/day.

The daily flow for the dwelling (6 persons @ 150 L/person/day) will be 900 L/day.

From AS/NZ 1547:2012 Table J1 the minimum capacity of the All-Waste septic tank required is 3000 L.

The tank must NOT be fitted with an outlet filter.



#### **LAND-APPLICATION SYSTEM**

#### **DISPOSAL AREA SIZING**

From AS/NZ 1547:2012 APPENDIX L, L4 DESIGN AREA SIZING, L4.2 Sizing

L = Q / (DLRxW)

#### Where:

L = length in m
Q = design daily flow in L/day
DLR = Design Loading Rate in mm/d
W = Width in m

L = 900/(20\*2.88)= 15.6m.

#### Use one 15.6m long by 2.88m wide Advanced Enviro-Septic bed.

See site plan and detail cross-section.

## <u>Its recommended that 1kg gypsum per m<sup>2</sup> be applied to the scarified base before laying the sand</u>

#### SYSTEM SAND

All configurations of Advanced Enviro-Septic® require a minimum of 150mm of system sand surrounding the circumference of the pipe. This sand, typically gravelly coarse sand, must adhere to the following percentage and quality restrictions.

AS Sieve Size (mm)	Percent Passing %
9.50	100
4.75	95-100
2.36	80-100
1.18	50-85
0.600	25-60
0.300	5-30
0.150	0-10
0.075	0-2

If there is any doubt if the sand media will pass requirements please contact Earth Test for further advice.



#### **SYSTEM INSTALLATION**

Avoid compaction by keeping people and machinery off the finished trench or bed floor. The system shall be installed by a licensed plumber in accordance with the manufacturer's recommendations and the relevant Australian Standards.

#### **Operation and Maintenance**

Homeowners should be fully informed of the proper operation and maintenance requirements of the on-site wastewater system.

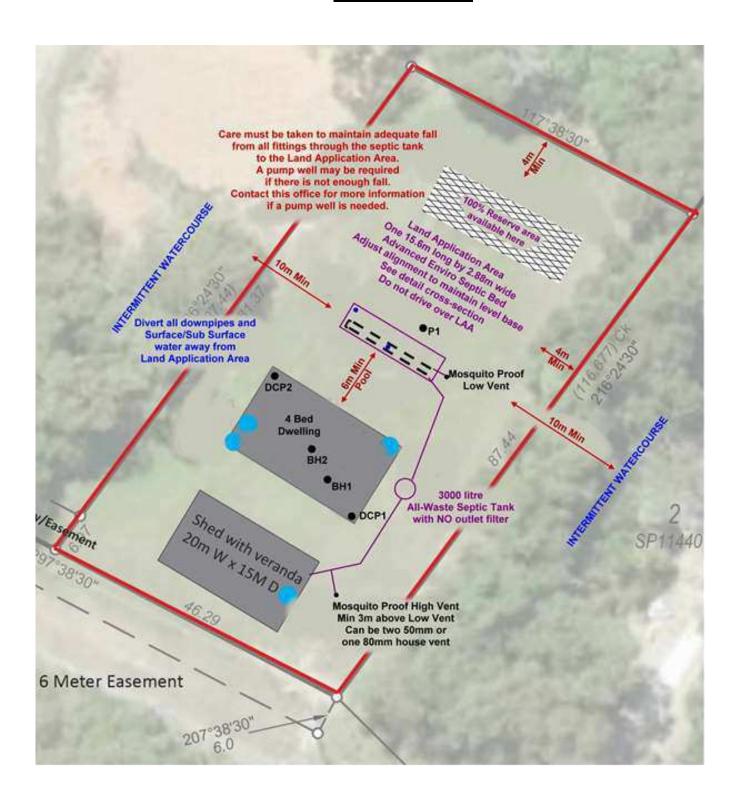
Gavin Negri Earth Test

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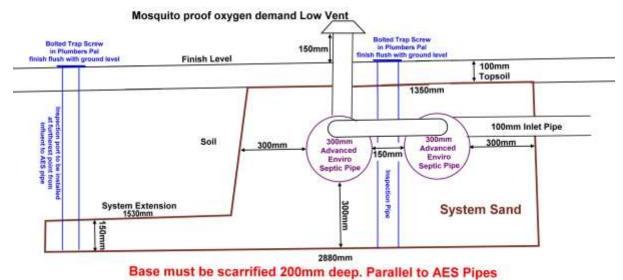


#### Consoil Solutions Pty. Ltd. T/A Earth Test QBCC #. 15092731

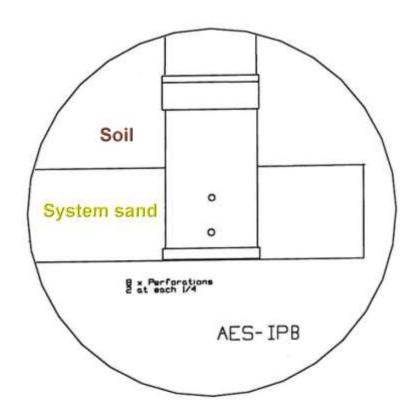
## SITE PLAN Lot 96 Mowbray River Road, Mowbray. NOT TO SCALE







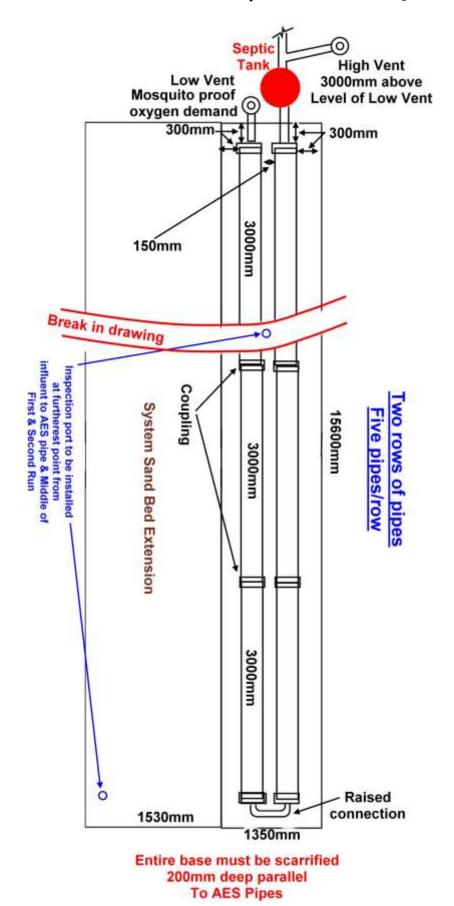
2880mm Wide Two Pipe
Advanced Enviro-Septic Cross-Section



**AES Inspection point detail** 

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#### Advanced Enviro-septic Design Calculator v8.5 "Always The First Option" "Always the BEST Option" until site and soil conditions rule it out. Lot 96 Mowbray River Road, Mowbray Post Code 4877 Client A&K Knight Designers Designers Ph 40954734 Number Earth Test 15092731 Name Number Plumb / Drainer Plumber Ph Plumber Lic Number Number Council Designers AES Douglas Shire Council 6/3/20 Cert Number Area This Calculator is a guide only, receiving soil classification, surface water, water tables and all other site constraints addressed by the qualified designer. >> This design is for an ADVANCED SECONDARY system meter loading rate, "30" for Advanced Secondary or "38" Secondary Is this a new installation Y or N Minimun single vent size is 80mm or 2 x 50mm house vents 6 a sentic tank outlet filter is NOT RECOMMENDED Number of person Daily Design Flow Allowance Litre/Person/Day 150 Number of rows required to suit site constrants 2 >> The maximum lth of a single AES pipe run is 30 meters ırface Soil Category as established by site and soil evaluation. CATEGORY 4 >> Catagory may require design considerations. Ref AS1547 Design Loading Rate based on site & soil evaluation DLR (mm/day) 20 >> Soil conditioning may be necessary. Ref AS1547 & Comments. Bore log depth below system Basel area 1400 >> Min depth below basel area is 600 mm to establish water table or re Enter System footprint Slope in % for standard AES systems to calculate 5 >> Consideration required for Sloping sites. Ref AS1547. refer comme Is this design a gravity system with no outlet filter? Y or N A House Vent & LOW VENT required on this system PLEASE CHECK YOU HAVE FALL FROM TANK TO AES SYSTEM PIPES COMMENTS :- " The outcome must be important to everyone Ripping of receiving surface is required in clay soil structures in Cat 4,5,6. In addition refer to AS 1547. Always excavate and rip parallel to the site slope/AES pi · Specialist soils advice and special design techniques will be required for clay dominated soil having dispersive or shrink/swell behaviour. Refer AS1547 All Sloping sites require special consideration and management through design of slope percentage, surface water and construction methods as per AS1547. Plumbers are reminded that good construction techniques as per AS1547 are especilly important in these soil types. Refer AS1547 & AES installation Instructions

AES System Calculator Outcomes					AES dimension	ons
Total System load - litres / day (Q).	900	l/d			AES System	System Extension
Min Length of AES pipe rows to treat loading	15.0	lm		Lth m:(L)	15.6	15.6
Number of FULL AES Pipe lengths per row	5	lths	V	Width m:(W)	1.35	1.53
Total Capacity of AES System pipe in Litres	2120	ltr.		Sand Depth:	0.75	0.15
				Area m2	21.1	23.9
DO YOU WISH TO USE CUT LENGTHS OF PIPE IN THIS DESIGN? (I	ENTER Y)			_		
IF YOU WISH TO USE A TRENCH EXTENSION DESIGN OPTIC	ON ENTER "	<i>[</i> "		Enter (	Custom Width in m	etre
AES INFILTRATION FOOT PRINT AREA - $L = Q / (DLR x W)$	Length		Width	Minimu	ım AES foot prin	t required .
for this Basic Serial design is	15.6	х	2.88	=	45.0	m2 total

Code	AES System Bill of Materials.			Chankar Environmental Use O
AES-PIPE	AES 3 mtr Lths required	10	lths	5
AESC	AESC Couplings required	8	ea	
AESO	AESO Offset adaptors	4	ea	
AESODV	AES Oxgen demand vent	1	ea	
AES-IPB	AES 100mm Inspection point base	2	ea	
AES Equ	AES Speed Flow Equaliser		ea	
	TOTAL SYSTEM SAND REQUIRED (Guide Only)	23	m3	]
	PLEASE email your AES CALC and Drawings to			]
	DESIGNREVIEW@ENVIRO-SEPTIC.COM.AU			Designreview@enviro-septic.o

> The AES Calculator is a design aid to allow checking of the AES components and configuration and is a guide only. Site and soil

conditions referencing the AS 1547 standard are calculated and designed by a Quailified Designer.

- > Chankar Environmental has no responsibility for the soil evaluation, loading calculations or DLR entered by the designer for this calculator.
- > AES pipes can be cut to lenght on site. They are supplied in 3 meter lths only.

AES-Design-V8.5-Calculator Copy Right - Chankar Environmental pty ltd 1.11.2015



# Leaders in Building Certification Services

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