DA Form 2 – Building work 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 building work.

For a development application involving **building work only**, use this form (*DA Form 2*) only. The DA Forms Guide provides advice about how to complete this form.

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

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)	Ronald and Louise Bleier
Contact name (only applicable for companies)	Patrick Clifton C/- GMA Certification
Postal address (PO 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)	Patrick.c@gmacert.com.au
Mobile number (non-mandatory)	0438 755 374
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	20201457

PART 2 – LOCATION DETAILS

2) Location of the premises (complete 2.1 and 2.2 if applicable)
Note : Provide details below and attach a site plan for any or all premises part of the development application. For further information, see <u>DA</u> <u>Forms Guide: Relevant plans.</u>
2.1) Street address and lot on plan
Street address AND lot on plan (all lots must be listed), or
Street address AND lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon. All lots must be listed).



Unit No.	Street No.	Street Name and Type	Suburb		
	41	Grays Creek Terrace	Mowbray		
Postcode	Lot No.	Plan Type and Number (e.g. RP,		vernment Area(s)	
	22	RP740339	Douglas S	Shire Council	
2.2) Additiona	l premises				
Additional	premises are rele a schedule to thi	vant to this development applicat is development application	ion and the details o	f these premises have been	
⊠ Not require	,u				
Note: Easement how they may aff	uses vary throughout ect the proposed deve asement location	nents over the premises? Queensland and are to be identified corre elopment, see the <u>DA Forms Guide</u> s, types and dimensions are inclu			
PART 3 – F	URTHER D	ETAILS			
4) Is the applic ☐ Yes – proc ☐ No		lding work assessable against the	e building assessme	nt provisions?	
	5) Identify the assessment manager(s) who will be assessing this development application Douglas Shire Council				
6) Has the local government agreed to apply a superseded planning scheme for this development application? Yes – a copy of the decision notice is attached to this development application The local government is taken to have agreed to the superseded planning scheme request – relevant documents attached No					
		art 3 of the DA Rules			
		ation request if determined neces nformation request for this develo	•	ment application	
	•	rmation request I, the applicant, acknowle			
 that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties. 					
 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>. 					
. state about mornation requeste to contained in the <u>Prix office duide</u> .					
8) Are there a	ny associated dev	elopment applications or current	approvals?		
☐ Yes – prov ☑ No	ide details below	or include details in a schedule to	this development a	pplication	
List of approva	al/development	Reference	Date	Assessment manager	
☐ Approval ☐ Developme	ent application				
☐ Approval	ent application				

	ce leave levy been paid?			
☐ Yes – a copy of the receipted QLeave form is attached to this development application				
☐ No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the				
assessment manager decides the development application. I acknowledge that the assessment manager may				
	val only if I provide evidence that		-	
	ng and construction work is less	<u> </u>	,	
Amount paid	Date paid (dd/mm/yy)	QLeave levy nun	nber (A, B or E)	
\$				
10) Is this development applic notice?	cation in response to a show cau	se notice or required as	a result of an enforcement	
Yes – show cause or enfo	rcement notice is attached			
⊠ No				
 Identify any of the followir application 	ng further legislative requirement	s that apply to any aspec	ct of this development	
	nt is on a place entered in the Qu	eensland Heritage Red	gister or in a local	
government's Local Herita	age Register. See the guidance	provided at www.des.qlc		
requirements in relation to	the development of a Queenslai	nd heritage place		
Name of the heritage place:		Place ID:		
PART 4 – REFERRAL	DETAILS			
12) Does this development ar	oplication include any building we	ork aspects that have an	v referral requirements?	
	12) Does this development application include any building work aspects that have any referral requirements?			
Yes – the Referral checklist for building work is attached to this development application No – proceed to Part 5				
	st for building work is attached to	this development applic	cation	
	st for building work is attached to	this development applic	eation	
No − proceed to Part 5	·			
No − proceed to Part 513) Has any referral agency p	provided a referral response for t	nis development applica	tion?	
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Postcode					
Country					
Contact number					
Email address (non-mandatory)					
Mobile number (non-mandatory)					
Fax number (non-mandatory)					
	•				
15) Builder's details					
\square Tick if a builder has not yet b following information.	een engaged	to undertake the	e wo	rk and proceed to 16). Oth	erwise provide the
Name(s) (individual or company full na	ame)				
Contact name (applicable for compa	anies)				
QBCC licence or owner - builde	er number				
Postal address (P.O. Box or street a	nddress)				
Suburb					
State					
Postcode					
Contact number					
Email address (non-mandatory)					
Mobile number (non-mandatory)					
Fax number (non-mandatory)					
16) Provide details about the pro-	oposed buildin	ig work			
What type of approval is being s	ought?				
Development permit					
Preliminary approval					
b) What is the level of assessment?					
Code assessment					
Impact assessment (requires public notification)					
c) Nature of the proposed building	ng work (tick a	all applicable bo	xes)		
New building or structure Repairs, alterations or additions					
Change of building classifica	tion (involving b	uilding work)	Swimming pool and/or pool fence		
Demolition				Relocation or rer	noval
d) Provide a description of the w	ork below or i	n an attached s	chec	lule.	
Secondary Dwelling					
e) Proposed construction materi					
	Double b		\boxtimes	Steel	Curtain glass
External walls	☐ Brick ven☐ Stone/co		F	Timber Fibre cement	☐ Aluminium ☐ Other
	☐ Stone/col	lorete		Steel	Aluminium
Frame	Other			Sieei	☐ Alullillillilli
Floor	☐ Cunorete		\boxtimes	Timber	Other
	Slate/con			Tiles	Fibre cement
Roof covering	Aluminiur		\boxtimes	Steel	☐ Other
f) Existing building use/classification	ation? (if applica	able)			

g) New building use/classification? (if applicable)					
Class 1a					
h) Relevant plans Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms Guide: Relevant plans .					
Relevant plans of the propo	sed works are attached to the developm	ent application			
	e of the proposed building work?				
\$TBC					
19) Has Ousensland Hams W	arranti, Cahama Inguranga haan naid?				
	arranty Scheme Insurance been paid?				
☐ Yes – provide details below ☐ No					
Amount paid	Date paid (dd/mm/yy)	Reference num	nber		
\$.,,,,				
-					
PART 6 – CHECKLIST	AND APPLICANT DECLARA	ATION			
19) Development application c	hecklist				
	Building work details have been comple	ted	⊠ Yes		
	ncludes a material change of use, recon				
	panied by a completed <i>Form 1 – Develo</i>		☐ Yes		
application details			Not applicable ■		
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 DA Forms Guide: Relevant plans.					
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 9) Yes Not applicable					
20) Applicant declaration					
	nt application, I declare that all informatio	n in this develop	ment application is true and		
correct	•	·			
from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the <i>Electronic Transactions Act 2001</i>					
Note: It is unlawful to intentionally provide false or misleading information.					
Privacy - Personal information	n collected in this form will be used by the				
	erral agency and/or building certifier (incl while processing, assessing and decidin				
be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or					
published on the assessment manager's and/or referral agency's website.					
Personal information will not be disclosed for a purpose unrelated to the <i>Planning Act 2016</i> , Planning Regulation 2017 and the DA Rules except where:					
		ccess to docume	nts contained in the <i>Planning</i>		
 such disclosure is in accordance with the provisions about public access to documents contained in the <i>Planning Act 2016</i> and the Planning Regulation 2017, and the access rules made under the <i>Planning Act 2016</i> and 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 retained as required by the <i>Public Records Act 2002.</i>					

PART 7 – FOR COMPLETION BY THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference ı	numbers:		
For completion by the building	certifier			
Classification(s) of approved b	uilding work			
Name		QBCC Certification Licence number	QBCC Insurance receipt number	
Notification of engagement of	alternative assessm	ent manager		
Prescribed assessment manage	ger			
Name of chosen assessment r	manager			
Date chosen assessment man	ager engaged			
Contact number of chosen ass	sessment manager			
Relevant licence number(s) of manager	chosen assessmen	t		
Additional information required	•	ment		
Confirm proposed construction	n materials:			
External walls	☐ Double brick ☐ Brick veneer ☐ Stone/concret	☐ Steel ☐ Timber ☐ Fibre cement	☐ Curtain glass ☐ Aluminium ☐ Other	
Frame	☐ Timber ☐ Other	Steel	☐ Aluminium	
Floor	☐ Concrete	☐ Timber	☐ Other	
Roof covering	☐ Slate/concrete	Tiles Steel	☐ Fibre cement ☐ Other	
QLeave notification and payment				
Note: For completion by assessment r Description of the work	пападег іг арріісавіе			
QLeave project number				
Amount paid (\$)		Date paid (dd/mm/yy)		
Date receipted form sighted by	assessment manaç	ger		
Name of officer who sighted th	e form			
Additional building details requ	ired for the Australia	an Bureau of Statistics		
Existing building use/classifica		an Daroda of Statistics		
New building use/classification				
Site area (m²)		Floor area (m²)		



Leader's in Building Certification Services



PLANNING STATEMENT

For: Ronald & Louise Bleier

Development: Dwelling House (Secondary Dwelling) At: 41 Grays Creek Terrace, Mowbray (Lot 22 RP740339)

Prepared by: GMA Certification Group

File Ref: 20201457

Revision: B



Table of Contents

1.0 Introduction	3
2.0 Development Summary	4
3.0 Site and Locality	6
4.0 Proposal	7
5.0 Statutory Planning Considerations	9
5.1 Planning Act 2016	9
5.1.1 Categorisation of Development	9
5.1.2 Assessment Manager	9
5.1.3 Level of Assessment	9
5.1.4 Statutory Considerations for Assessable Development	9
5.1.5 State Planning Policy	10
5.1.6 Regional Plan	10
5.1.7 Referral Agencies	10
5.1.8 State Development Assessment Provisions	10
6.0 Local Planning Considerations	11
6.1 Douglas Shire Council Planning Scheme	11
6.1.1 Statement of Compliance – Benchmark Assessment	12
7.0 Summary and Conclusion	14
Appendix 1	15
Appendix 2.	16
Appendix 3.	17
Annondiy 4	10



1.0 Introduction

This report has been prepared on behalf of Ronald and Louise Bleier in support of a Development Application to Douglas Shire Council for the purpose of a Secondary Dwelling on land located 41 Grays Creek Terrace and described as Lot 22 on RP740339.

The application site is a single, irregular shaped rural residential allotment with an area of 12,130m² and frontage to Grays Creek Terrace of approximately 43 metres. The site has a slope that falls from the east to the west and to the south. To the south the site contains a watercourse that operates as a natural drainage path during rain events.

It is proposed to develop a Secondary Dwelling on the site. It would be a modest two bedroom dwelling with a gross floor area of 88m². The house would be established within an existing cleared area 22 metres to the rear of the existing dwelling. It would be setback 8.5 metres from the north eastern side boundary, which would be the nearest site boundary Externally, the dwelling would be finished with a colorbond roof and weather boards.

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 relating to maximum site coverage and maximum Gross floor Area. Consequently, a Code Assessable application for Building Works 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:	41 Grays Creek Terrace, Mowbray	
Real Property Description:	Lot 22 RP740339	
Easements & Encumbrances:	Nil	
Site Area/Frontage:	Area: 12,130m ²	
	Frontage: 43 metres	
Registered Owner:	Ronald Steven Bleier & Louise Marion Bleier	
Proposal:	Secondary Dwelling	
Approval Sought:	Development Permit	
Level of Assessment:	Code Assessment	
State Interests – State Planning Policy	 Economic Growth – Agricultural land classification, in part; 	
	 Environment and Heritage – MSES Wildlife Habitat (endangered or vulnerable), MSES Regulated vegetation (Category B, R, Essential Habitat & Intersecting a Watercourse); and, 	
	 Safety and Resilience to Hazards – Potential Impact Buffer. 	
State Interests – SARA Mapping:	 Fish Habitat Areas – Queensland Waterways for waterway barrier works – Low; 	
	 Native Vegetation Clearing – Category B, R & X on the regulated vegetation management map, Category A or B area that is least concern regional ecosystem; and essential habitat. 	
Referral Agencies:	Nil	
State Development Assessment Provisions:	N/A	
Regional Plan Designation:	Rural Living Area	
Zone:	Rural Residential Zone	
Overlays:	 Bushfire Hazard Overlay – Potential Impact Buffer; 	



- Landscape Values Overlay High Landscape Value;
- Natural Areas Overlay MSES
 Regulated Vegetation, Watercourse and Wildlife Habitat; and,
- Potential Landslide Hazard, in part.



3.0 Site and Locality

The application site is a single irregular shaped allotment located at 41 Grays Creek Terrace and described as Lot 22 on RP740339. The site contains an area of 1.213 hectares and has frontage to Grays Creek Terrace of 42.94 metres.

The site is currently improved by a single detached dwelling and outbuildings, which are located towards the Grays Creek Terrace frontage. The balance of the site contains mature vegetation and has a topography that slopes from the west to the east and from the frontage to the rear of the site. Grays Creek Terrace, at the site frontage, is a sealed and council maintained cul-de-sac. The rear of the site contains a portion of Grays Creek which is operates as an overland flow path.

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 Secondary Dwelling on the site. The dwelling would be located 22 metres to the rear of the existing dwelling, setback 8.5 metres from the north eastern side boundary and setback 13 metres from the top of the high bank of the Grays Creek watercourse to the rear.

The dwelling would be constructed on poles with the ground floor used for the parking of vehicles. The first floor would contain two bedrooms, living/dining/kitchen area, and utility rooms. The Gross Floor Area of the dwelling would be 88m² with additional external verandahs of an additional 80m².

Externally the building would be finished with a colorbond roof and weatherboard walls.

Access to the dwelling would be provided from the existing access of Grays Creek Terrace.

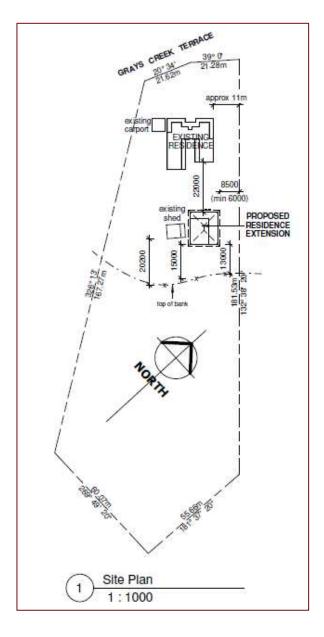


Figure 1: Extract of proposed site plan.



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:	12,130m ²
Frontage:	Approx. 43 metres
Height:	5.6 metres to the underside of the ceiling.
Gross Floor Area:	47.6m ²
Site Cover:	5% (including existing)
Setbacks:	Min 8.5 metres
Access:	As existing
Car Parking Spaces:	Two additional



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
(Secondary Dwelling)		

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 the Acceptable Outcomes relating to total footprint and the maximum Gross Floor Area for a Secondary Dwelling. 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;
- Environment and Heritage MSES Wildlife Habitat (endangered or vulnerable),
 MSES Regulated vegetation (Category B, R, Essential Habitat & Intersecting a Watercourse); and,
- Safety and Resilience to Hazards 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;
- Landscape Values Overlay High Landscape Value;
- Natural Areas Overlay MSES Regulated Vegetation, Watercourse and Wildlife Habitat; and,
- · Potential Landslide Hazard, in part.

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

Assessment Benchmark	Applicability	Compliance
Rural Residential Zone Code	Applies	Complies with relevant Acceptable Outcome except AO3.1. Consideration is required to be given to PO3. See below.
Bushfire Hazard Overlay Code	Applies	Complies with all relevant Acceptable Outcomes.
Landscape Values Overlay Code	Not applicable	Not identified as an Assessment Benchmark
Natural Areas Overlay Code	Applies	Complies with all applicable Acceptable Outcomes.
Potential Landslide Hazard Overlay Code	Applies	Complies with all relevant Acceptable Outcomes.
Dwelling House Code	Applies	Complies with all applicable Acceptable Outcomes with the exception of AO1. Consideration is required to be given to PO1. See below.



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 AO3.1 states:

The maximum building footprint of all buildings and structures (including outbuildings) contained on a lot does not exceed 500m².

The footprint of all buildings on the site would be 608m², which is in excess of the 500m² identified as an Acceptable Outcome and consideration of PO1 is required

The minimum site area for lots in the Rural Residential Zone is 4,000m². With a maximum footprint of 500m² this would result in a site coverage of 12.5%. The subject site has an area of 12,130m² and at a site coverage of 12.5 % results in a footprint of 1,516.25m². With a footprint of 608m² the proposed development would result in a site cover of 5%, which less than the 12.5% and is consistent with the intended built density of the rural residential zone and the character of the area.

The proposed development is considered to comply with Performance Outcome PO3 and, therefore, the Assessment Benchmark.

6.1.1.2 Dwelling House Code

Performance Outcome PO1 of the Dwelling House Code states:

Secondary dwellings:

- (a) are subordinate, small-scaled dwellings;
- (b) contribute to a safe and pleasant living environment;
- (c) are established on appropriately sized lots;
- (d) do not cause adverse impacts on adjoining properties.

The associated Acceptable Outcome AO1 State:

The secondary dwelling:

- (a) has a total gross floor area of not more than 80m2, excluding a single carport or garage;
- (b) is occupied by 1 or more members of the same household as the dwelling house.

It is intended that the proposed Secondary Dwelling would be occupied by a member of the household; however it would have a Gross Floor Area of 88m². Whilst this is



greater than the 80m² identified as an Acceptable Outcome, the proposed secondary dwelling would be subordinate to the primary dwelling and would have a footprint of less than half the existing dwelling and would be established on a large rural residential lot. It would not have an adverse impact on adjoining properties and would be provided with an appropriate setback to the nearest side boundary.

It is considered that notwithstanding that the proposed secondary dwelling is greater in size than the identified acceptable outcome, it complies with the Performance Outcome.



7.0 Summary and Conclusion

This report has been prepared on behalf of Ronald and Louise Bleier in support of a Development Application to Douglas Shire Council for the purpose of a Secondary Dwelling on land located 41 Grays Creek Terrace and described as Lot 22 on RP740339.

The application site is a single, irregular shaped rural residential allotment with an area of 12,130m² and frontage to Grays Creek Terrace of approximately 43 metres. The site has a slope that falls from the east to the west and to the south. To the south the site contains Grays Creek that operates as a natural drainage path during rain events.

It is proposed to develop a Secondary Dwelling on the site. It would be a modest two bedroom dwelling with a gross floor area of 88m². The house would be established within an existing cleared area 22 metres to the rear of the existing dwelling. It would be setback 8.5 metres from the north eastern side boundary, which would be the nearest site boundary Externally, the dwelling would be finished with a colorbond roof and weather boards.

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 relating to maximum site coverage and maximum Gross floor Area. Consequently, a Code Assessable application for Building Works 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 of the proposed development demonstrates that it is consistent with the Performance Outcomes associated with the Acceptable Outcomes that cannot be complied with. 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.



Appendix 1.

CERTIFICATE OF TITLE

CURRENT TITLE SEARCH

NATURAL RESOURCES, MINES AND ENERGY, QUEENSLAND

Request No: 33714790

Search Date: 16/04/2020 14:16 Title Reference: 21234211

Date Created: 23/01/1984

Previous Title: 21145159

REGISTERED OWNER

Dealing No: 704770460 18/05/2001

RONALD STEVEN BLEIER

LOUISE MARION BLEIER JOINT TENANTS

ESTATE AND LAND

Estate in Fee Simple

LOT 22 REGISTERED PLAN 740339 Local Government: DOUGLAS

EASEMENTS, ENCUMBRANCES AND INTERESTS

- Rights and interests reserved to the Crown by Deed of Grant No. 10568186 (POR 43)
- 2. LOCAL GOVERNMENT AGREEMENT No 704328335 25/09/2000 at 09:45 pursuant to Section 34(12G), Local Government Act 1936 restricts dealings over LOT 20 ON RP738500 AND LOT 22 ON RP740339 IDENTIFYING T124606 PRODUCED 16 DEC 1983 RECORDED 16 JAN 1984
- 3. MORTGAGE No 704770467 18/05/2001 at 14:54 COMMONWEALTH BANK OF AUSTRALIA A.C.N. 123 123 124
- 4. MORTGAGE No 713531130 22/10/2010 at 11:33 COMMONWEALTH BANK OF AUSTRALIA A.B.N. 48 123 123 124

ADMINISTRATIVE ADVICES - NIL UNREGISTERED DEALINGS - NIL

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 TERRAIN

MERIDIAN

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PROCLAIMED

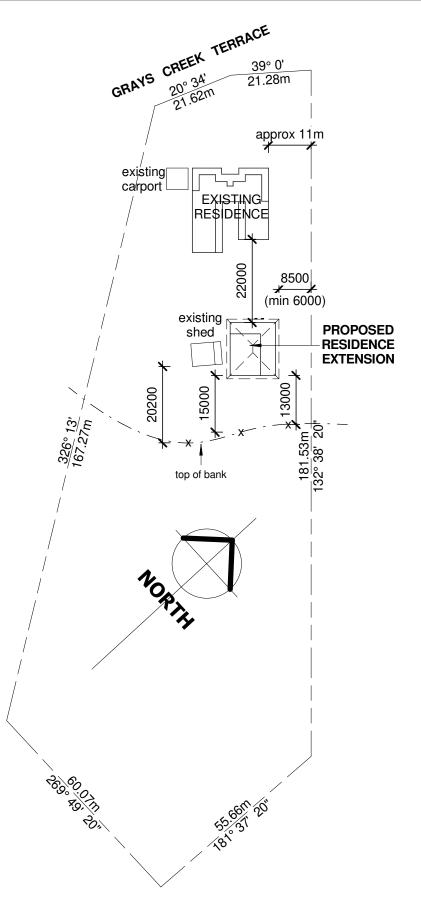
SURVEY AREA

PI



Appendix 2.

PROPOSAL PLANS



Sheet List		
Sheet		
Number Sheet Name		
1 of 4	Site Plan, Sheet List, Notes	
2 of 4	Floor Plans	
3 of 4	Elevations - Sheet 1	
4 of 4	Elevations - Sheet 2	

BUILDING FOOTPRINT AREAS

EXISTING

 $\begin{array}{lll} residence & -361m^2 \\ carport & -32m^2 \\ shed & -47m^2 \\ TOTAL & -440m^2 \end{array}$

PROPOSED

extension - 168m²

NEW TOTAL AREA - 608m²

GENERAL

All construction is to comply with <u>C2</u> building standards, Building Code of Australia, all relevant legislation, and Council By-Laws.

Builders are to ensure that all materials nominated on this plan are used and fixed strictly in accordance with the manufacturers specifications, also taking into consideration all site conditions applicable to the materials allowable and recommended use. Substitution of any structural members, or variation to any part of the design without seeking approval prior to changing will void any responsibility of the Designer and Engineer for the structural integrity and performance of the building. Only Australian Standards compliant steel members are to be used in this building

All nominated fixings, reinforcing, timber sizes and grades etc are the minimum requirements.

All dimensions must to be checked by the Builder prior to commencing any work – written dimensions take precedence over scaled.

Any alterations or discrepancies are to be clarified with the plan Author or Engineer prior to carrying out the work.

This plan has been prepared for building approval only and is not intended to be read as a complete specification of the work and finishes to be carried out on this project.

TERMITE PROTECTION

This structure as detailed complies with the provisions of AS3660.1 for the protection of new buildings from subterranean termites.

Owners are reminded that to maintain compliance with AS3660.1 they are advised to have inspections carried out by a qualified person every 12 months generally, and every 3 months if in an area where termite risk is high.

WASHERS

Washers as listed below are to be used with all bolted connections involving timber, where bolt is in tension;

M10 - 38 x 38 x2.0 M12 - 50 x 50 x 3.0

M16 - 65 x 65 x 5.0

At connections to steel plates, use standard round washers for the bolt diameter used, UNO.

1 Site Plan 1:1000

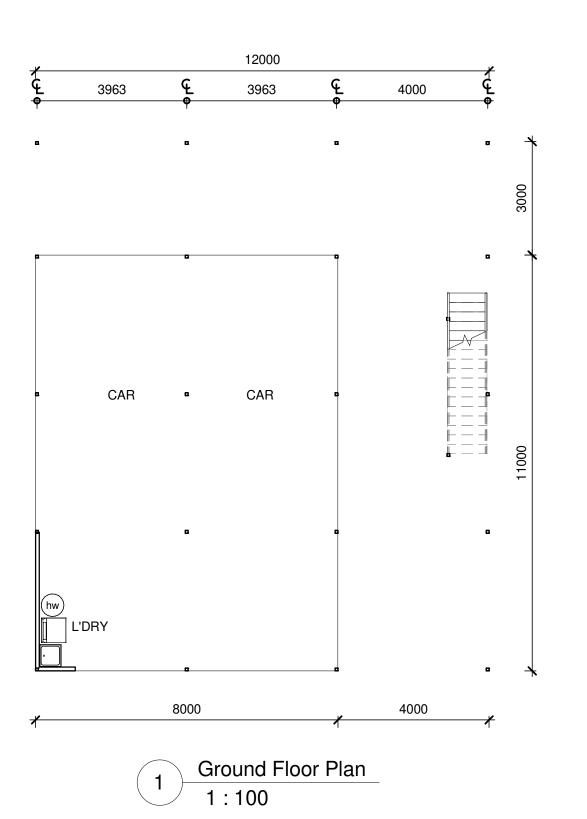
GREG SKYRING

Design and DRAFTING Pty. Ltd.

Lic Under QBSA Act 1991 - No 1040371

11 Noli Close, Mossman Q. 4873 Phone/Fax: (07) 40982061 Mobile: 0419212652 Email: greg@skyringdesign.com.au

CLIENT		WIND CLASS	PLAN NUMBER	SHEET
R. & L. Bleier		C2	504-20	1 of 4
SCALES	PLAN TITLE		DATE OF ISSUE	REV
1:1000	Site Plan, Sheet List, No	tes	prelim 27.05.20	В



LEGEND

timber stud framed external and internal walls, gyprock lining to internal, villaboard to wet areas, select boards to external

timber stud framed bracing walls, lined one face, refer to Bracing Wall and Wall Fixing Notes

□ 100 x 4 SHS Posts to ground floor

FW ● Floor Waste (optional)

We Waterproof wet area to AS3740.

Smoke alarms to AS3786.

Lift-off hinges to WC - where pan is within a 1200 radius from door hinge

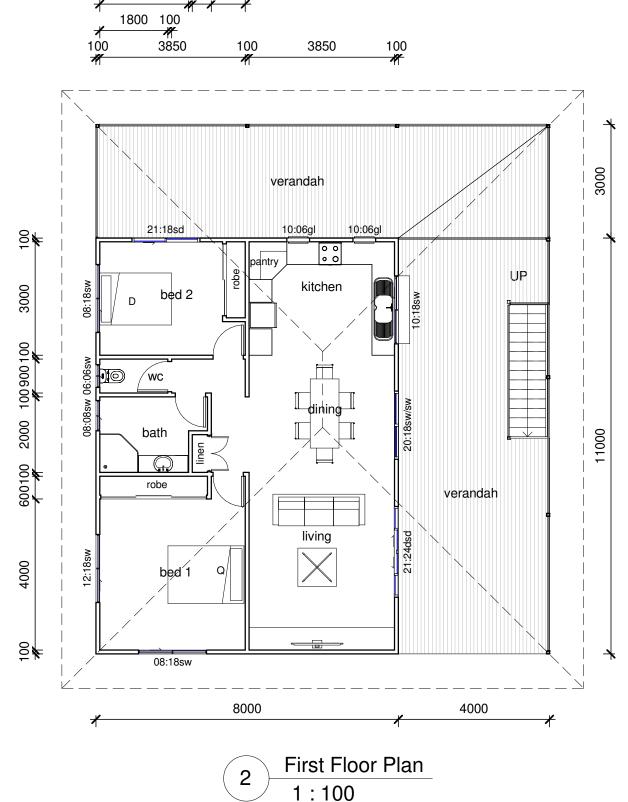
WINDOW and DOOR LEGEND

dsd double sliding door gd glass door

ftd select feature timber doors

sw single sliding window dsw double sliding window dh double hung window

NOTE: all windows and doors are colour coated aluminium framed uno, fitted with grey glass and flymesh



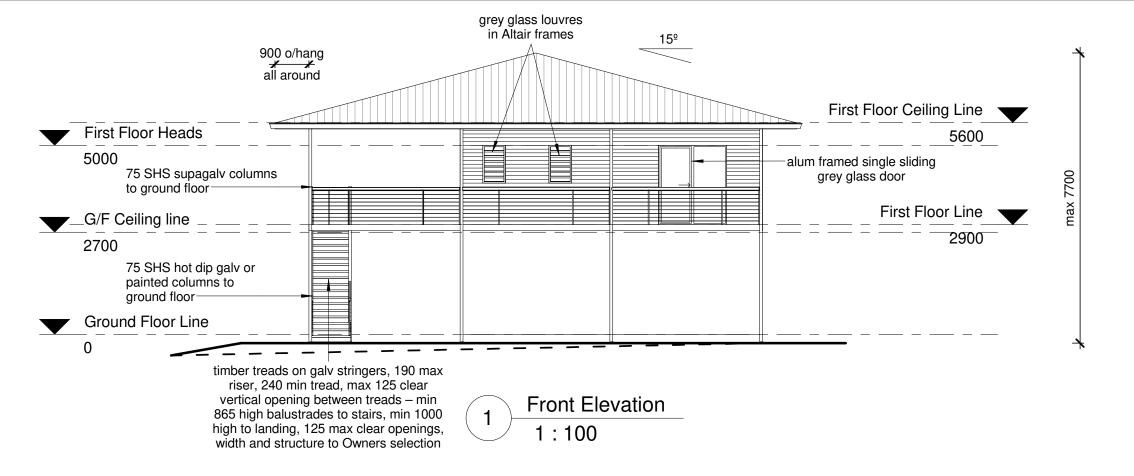
2350 100500 900

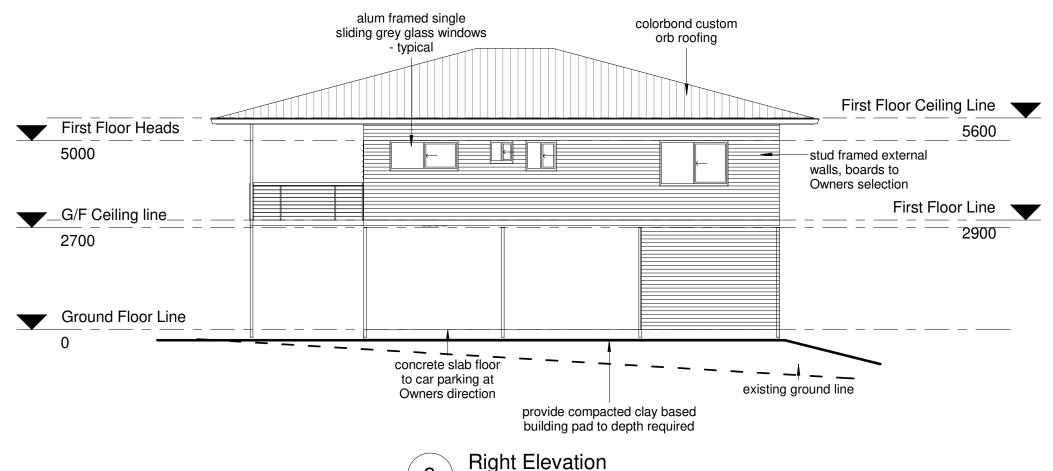
GREG SKYRING Design and DRAFTING Pty. Ltd.

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CLIENT		WIND CLASS	PLAN NUMBER	SHEET
R. & L. Bleier		C2	504-20	2 of 4
SCALES	PLAN TITLE		DATE OF ISSUE	REV
1 : 100	Floor Plans		prelim 27.05.20	В





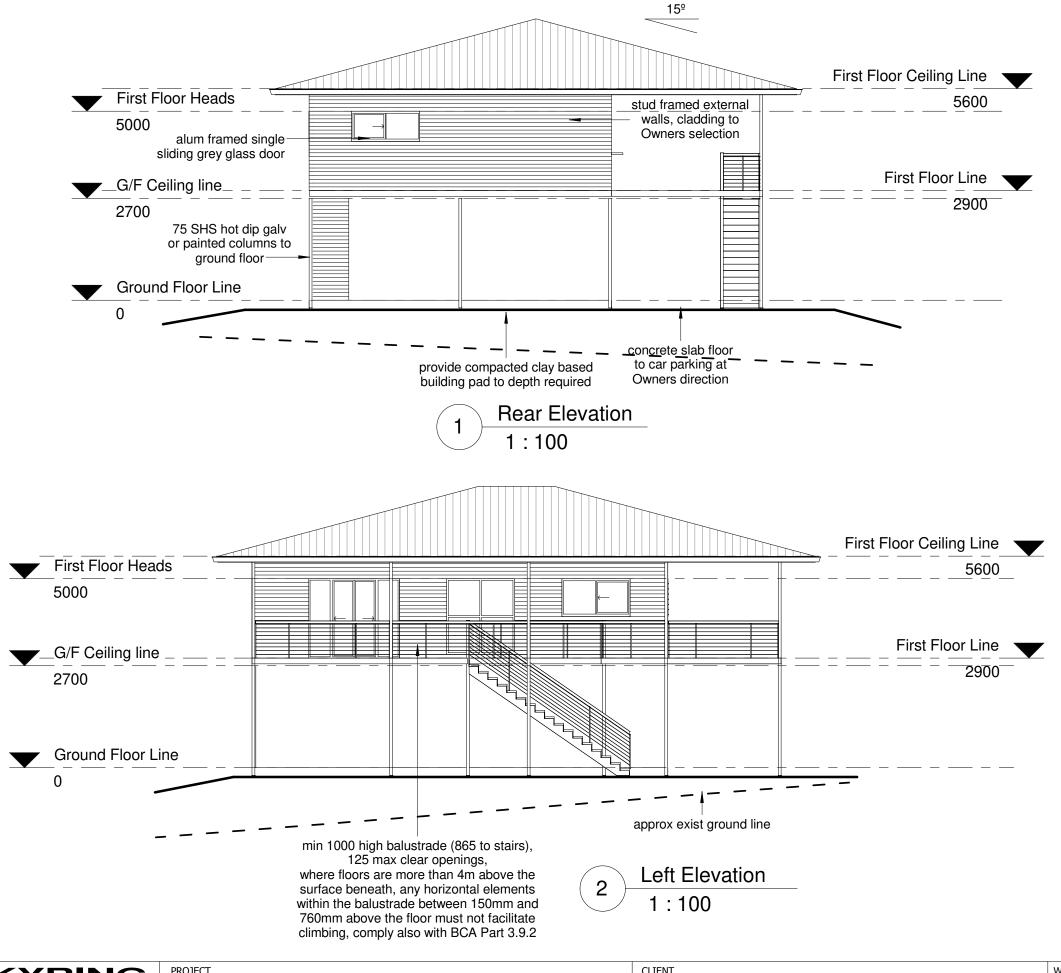
1:100

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CLIENT		WIND CLASS	PLAN NUMBER	SHEET
R. & L. Bleier		C2	504-20	3 of 4
SCALES	PLAN TITLE		DATE OF ISSUE	REV
1:100	Elevations - Sheet 1		prelim 27.05.20	В



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CLIENT		WIND CLASS	PLAN NUMBER	SHEET
R. & L. Bleier		C2	504-20	4 of 4
SCALES	PLAN TITLE		DATE OF ISSUE	REV
1 : 100	Elevations - Sheet 2		prelim 27.05.20	В



Appendix 3.

PLANNING BENCHMARK ASSESSMENT



20201457 – 41 Grays Creek Terrace, Mowbray

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 4000m2:
 - (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:



20201457 – 41 Grays Creek Terrace, Mowbray

- (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 Secondary Dwelling would have a height of less than 8.5 metres.	



20201457 – 41 Grays Creek Terrace, Mowbray

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 Secondary Dwelling would be setback a minimum of 6 metres from side and rear boundaries and would be setback more than 20 metres from the front boundary.
PO3	AO3.1	Complies with PO3
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 500m².	The footprint of all buildings on the site would be 608m². The minimum site area for lots in the Rural Residential Zone is 4,000m². With a maximum footprint of 500m² this would result in a site coverage of 12.5%.



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
		The subject site has an area of 12,130m² and at a site coverage of 12.5 % results in a footprint of 1,516.25m².
		With a footprint of 608m² the proposed development would result in a site cover of 5%, which is consistent with the intended built density of the rural residential zone and the character of the area.
	AO3.2	Complies with AO3.2
	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.	The outbuildings on the site comprise 79m ² , which equates to 15.8% of the 500m ² footprint.
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		



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
PO5	AO5	Not Applicable
The establishment of uses is consistent with the outcomes sought for the Rural residential zone and protects the zone from the intrusion of inconsistent uses.	Uses identified in Table 0.a are not established in the Rural residential zone.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
P06	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.
P07	AO7	Not Applicable
Development is located, designed, operated and managed to respond to the characteristics, features and constraints of the site and surrounds.	No acceptable outcomes are prescribed.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
Note- planning scheme policy – site assessments provides guidance on identifying the characteristics, features and constraints of a site and its surrounds.		



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
PO8	AO8	Not Applicable
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.	No acceptable outcomes are prescribed.	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.	No acceptable outcomes are prescribed.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
Note – Acceptable on-site waste disposal is to be demonstrated in a report prepared by a suitably qualified professional.		



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
PO10	AO10	Not Applicable
New lots have a minimum road frontage of 30 metres	No acceptable outcomes are prescribed.	The proposed development is not identified as Assessable Development in the Tables of Assessment.
PO11	AO11	Not Applicable
New lots contain a 40 metre x 50 metre rectangle	No acceptable outcomes are prescribed.	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
- 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

- Marine industry
- 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

- Rooming accommodation
- 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 developmen	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 hazards, provides a guide to the preparation of a	Not applicable The proposed development does not involve a vulnerable use.	



20201457 – 41 Grays Creek Terrace, Mowbray

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.



20201457 – 41 Grays Creek Terrace, Mowbray

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	AO4.2	Not applicable
Where reconfiguration is undertaken for other purposes, a building envelope of reasonable	Lots are separated from hazardous vegetation by a distance that:	The proposal does not involve a reconfiguration
dimensions is provided on each lot which achieves radiant heat flux level of 29kW/m ² at any point.	(a) achieves radiant heat flux level of 29kW/m ² at all boundaries; and	
acany point.	(b) is contained wholly within the development site.	
	Note - Where a separation distance is proposed to be achieved by utilising existing cleared developed areas	



20201457 – 41 Grays Creek Terrace, Mowbray

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



20201457 – 41 Grays Creek Terrace, Mowbray

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	Not applicable The proposal does not involve a reconfiguration
	standards set out in the reconfiguration of a lot code and works codes in this planning scheme.	
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



20201457 – 41 Grays Creek Terrace, Mowbray

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	



20201457 – 41 Grays Creek Terrace, Mowbray

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



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
	 (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; (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. 	
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



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
	 (c) establishes direct access to a safe assembly /evacuation area in the event of an approaching bushfire; and (d) ensures roads likely to be used in the event of a fire are designed to minimise traffic congestion. 	
	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



20201457 – 41 Grays Creek Terrace, Mowbray

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 are to be established in accordance with method 2 set out in AS3959-2009.	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 (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.	Not applicable The proposal does not involve a Material Change of Use.
	distances, perimeter roads or fire trails may be absorbed as part of subsequent stages. Note - The achievement of a cleared separation	



20201457 – 41 Grays Creek Terrace, Mowbray

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	Not applicable The proposal does not involve a Material Change of Use.



20201457 – 41 Grays Creek Terrace, Mowbray

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	Not applicable



20201457 – 41 Grays Creek Terrace, Mowbray

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 that has previously been accepted by Council 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:	Able to comply with AO13 Sufficient space is provided on site to accommodate the required water tank. It is requested that Council attach a condition to any approval granted to secure compliance.



20201457 – 41 Grays Creek Terrace, Mowbray

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;	
	 (c) includes shielding of tanks and pumps in accordance with the relevant standards; (d) includes a hardstand area allowing medium rigid vehicle (15 tonne fire appliance) access within 6m of the tank; (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 (f) is clearly identified by directional signage provided at the street frontage. 	
PO14	AO14	Not applicable
Landscaping does not increase the potential	Landscaping uses species that are less likely to	No landscaping is proposed as part of this



20201457 – 41 Grays Creek Terrace, Mowbray

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.



8.2.7 Natural areas overlay code

8.2.7.1 Application

- (1) This code applies to assessing a material change of use, reconfiguring a lot, operational work or building work within the Natural areas 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 Natural areas overlay is identified on the Natural areas overlay map in Schedule 2 and includes the following sub-categories:
 - (a) MSES Protected area;
 - (b) MSES Marine park;
 - (c) MSES Wildlife habitat;
 - (d) MSES Regulated vegetation;
 - (e) MSES Regulated vegetation (intersecting a Watercourse);
 - (f) MSES High ecological significance wetlands;
 - (g) MSES High ecological value waters (wetlands);
 - (h) MSES High ecological value waters (watercourse);
 - (i) MSES Legally secured off set area.

Note – MSES = Matters of State Environmental Significance.



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

8.2.7.2 Purpose

- (1) The purpose of the Natural areas overlay code is to:
 - (a) implement the policy direction in the Strategic Framework, in particular:
 - (i) Theme 2: Environment and landscape values, Element 3.5.3 Biodiversity, Element 3.5.4 Coastal zones;
 - (ii) Theme 3: Natural resource management Element 3.6.2 Land and catchment management, Element 3.6.3 Primary production, forestry and fisheries.
 - (b) enable an assessment of whether development is suitable on land within the Biodiversity area overlay sub-categories.
- (2) The purpose of the code will be achieved through the following overall outcomes:
 - (a) development is avoided within:
 - (i) areas containing matters of state environmental significance (MSES);
 - (ii) other natural areas;
 - (iii) wetlands and wetland buffers;
 - (iv) waterways and waterway corridors.
 - (b) where development cannot be avoided, development:
 - (i) protects and enhances areas containing matters of state environmental significance;
 - (ii) provides appropriate buffers;
 - (iii) protects the known populations and supporting habitat of rare and threatened flora and fauna species, as listed in the relevant State and Commonwealth legislation;



- (iv) ensures that adverse direct or indirect impacts on areas of environmental significance are minimised through design, siting, operation, management and mitigation measures;
- (v) does not cause adverse impacts on the integrity and quality of water in upstream or downstream catchments, including the Great Barrier Reef World Heritage Area;
- (vi) protects and maintains ecological and hydrological functions of wetlands, waterways and waterway corridors;
- (vii) enhances connectivity across barriers for aquatic species and habitats;
- (viii) rehabilitates degraded areas to provide improved habitat condition, connectivity, function and extent;
- (ix) protects areas of environmental significance from weeds, pests and invasive species.
- (c) strategic rehabilitation is directed to areas on or off site, where it is possible to achieve expanded habitats and increased connectivity.

8.2.7.3 Criteria for assessment

Table 8.2.7.3.a - Natural areas overlay code -assessable development

Performance outcomes	Acceptable outcomes	Compliance
For self-assessable and assessable development		
Protection of matters of environmental significance		
PO1	AO1.1	Complies with AO1.1



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
Development protects matters of environmental significance.	Development avoids significant impact on the relevant environmental values. or AO1.2 A report is prepared by an appropriately qualified	The proposed Dwelling would be located in an existing cleared area and would not require the removal of any further native vegetation or disturbance of areas of significance.
	person demonstrating to the satisfaction of the assessment manager, that the development site does not contain any matters of state and local environmental significance.	
	or AO1.3	
	Development is located, designed and operated to mitigate significant impacts on environmental values. For example, a report certified by an appropriately qualified person demonstrating to the satisfaction of the assessment manager, how the proposed development mitigates impacts, including on water	



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance	
	quality, hydrology and biological processes.		
Management of impacts on matters of environ	Management of impacts on matters of environmental significance		
PO2	AO2	Complies with AO2	
Development is located, designed and constructed to avoid significant impacts on matters of environmental significance.	The design and layout of development minimises adverse impacts on ecologically important areas by: (a) focusing development in cleared areas to protect existing habitat; (b) utilising design to consolidate density and preserve existing habitat and native vegetation;	The Dwelling would be located within an existing cleared area and would not require the removal of any further native vegetation or further disturbance of areas of significance.	
	(c) aligning new property boundaries to maintain ecologically important areas;		
	(d) ensuring that alterations to natural landforms, hydrology and drainage patterns on the development site do not negatively affect ecologically important areas;		



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
	(e) ensuring that significant fauna habitats are protected in their environmental context; and	
	(f) incorporating measures that allow for the safe movement of fauna through the site.	
PO3	AO3.1	Not applicable
An adequate buffer to areas of state environmental significance is provided and maintained.	A buffer for an area of state environmental significance (Wetland protection area) has a minimum width of:	The site is not located adjacent a wetland.
	(a) 100 metres where the area is located outside Urban areas; or	
	(b) 50 metres where the area is located within Urban areas.	
	or	
	AO3.2	
	A buffer for an area of state environmental significance is applied and maintained, the width of	



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
	which is supported by an evaluation of environmental values, including the function and threats to matters of environmental significance.	
PO4	AO4.1	Not applicable
Wetland and wetland buffer areas are maintained, protected and restored.	Native vegetation within wetlands and wetland buffer areas is retained.	The site is not located adjacent a wetland.
Note – Wetland buffer areas are identified in AO3.1.	AO4.2	Not applicable
	Degraded sections of wetlands and wetland buffer areas are revegetated with endemic native plants in patterns and densities, which emulate the relevant regional ecosystem.	The site is not located adjacent a wetland.
PO5	AO5.1	Able to comply with AO5.1
Development avoids the introduction of non- native pest species (plant or animal) that pose a	Development avoids the introduction of non-native pest species.	No landscaping is proposed as part of the application; however, council are invited to attach a



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
risk to ecological integrity.		condition to any approval granted to ensure long term compliance, if necessary.
	AO5.2 The threat of existing pest species is controlled by adopting pest management practices for long-term ecological integrity.	Able to comply with AO5.2 No landscaping is proposed as part of this application; however, Council are invited to attach a condition to any approval granted, if necessary.
Ecological connectivity		
P06	AO6.1	Complies with AO6.1
Development protects and enhances ecological connectivity and/or habitat extent.	Development retains native vegetation in areas large enough to maintain ecological values, functions and processes. and	The Dwelling would be located within an existing cleared area and no further clearing of native vegetation would be required to facilitate the development.



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
	AO6.2 Development within an ecological corridor rehabilitates native vegetation. and	Complies with AO6.2 The Dwelling would be located within an existing cleared area and no further clearing of native vegetation would be required to facilitate the development.
	AO6.3 Development within a conservation corridor mitigates adverse impacts on native fauna, feeding, nesting, breeding and roosting sites and native fauna movements.	Complies with AO6.3 The Dwelling would be located within an existing cleared area and no further clearing of native would be required to facilitate the development.
PO7 Development minimises disturbance to matters of state environmental significance (including existing ecological corridors).	AO7.1 Development avoids shading of vegetation by setting back buildings by a distance equivalent to the height of the native vegetation. and	Complies with AO7.1 The proposed development would be separated from existing significant vegetation There would be no opportunity for additional overshadowing of existing vegetation as a result of the development.



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
	AO7.2 Development does not encroach within 10 metres of existing riparian vegetation and watercourses.	Complies with AO7.2 The proposed dwelling would be setback more than 10 metres from existing riparian vegetation and the watercourse within the south of the site.
Waterways in an urban area		
PO8	AO8.1	Not applicable
Development is set back from waterways to protect and maintain: (a) water quality;	Where a waterway is contained within an easement or a reserve required for that purpose, development does not occur within the easement or reserve; or	The site is within a non-urban area.



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
(b) hydrological functions;(c) ecological processes;(d) biodiversity values;(e) riparian and in-stream habitat values and connectivity;(f) in-stream migration.	AO8.2 Development does not occur on the part of the site affected by the waterway corridor. Note – Waterway corridors are identified within 8.2.7.3.b	Not applicable The site is within a non-urban area.
Waterways in a non-urban area		
PO9	AO9	Complies with AO9
Development is set back from waterways to protect and maintain: (a) water quality; (b) hydrological functions; (c) ecological processes;	Development does not occur on that part of the site affected by a waterway corridor. Note – Waterway corridors are identified within table 8.2.7.3.b.	The proposed dwelling would be setback 13 metres from the top of high bank of the watercourse to the rear.



Performance outcomes	Acceptable outcomes	Compliance
(d) biodiversity values;		
(e) riparian and in-stream habitat values and connectivity;		
(f) in-stream migration.		

8.2.7.3.a — Widths of waterway corridors for waterways

Waterways classification	Waterway corridor width
Waterways in Urban areas	10 metres measured perpendicular from the top of the high bank.
Waterways in Other areas	For a dwelling house, 10 metres measured perpendicular from the top of the high bank. For all other development, 20 metres measured perpendicular from the top of the high bank.



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.
(a) building design;(b) increased slope;(c) removal of vegetation;(d) stability of soil;(e) earthworks;	Development is on an existing stable, benched site and requires no further earthworks or	
(f) alteration of existing ground water or surface water paths;(g) waste disposal areas.	AO1.3 A competent person certifies that:	
	(a) the stability of the site, including associated buildings and infrastructure, will be maintained	



20201457 – 41 Grays Creek Terrace, Mowbray

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	



20201457 – 41 Grays Creek Terrace, Mowbray

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.	 (a) is not more than 1.2 metres in height for each batter or retaining wall; (b) is setback a minimum of 2 metres from property boundaries; (c) is stepped with a minimum 2 metre wide berm to incorporate landscaping in accordance with Planning scheme policy SC6.7 – Landscaping; (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. 	No retaining structures are proposed.
Additional requirements for Community infrastructure		



20201457 – 41 Grays Creek Terrace, Mowbray

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; (c) provides access to the infrastructure without impediment from the effects of a landslide; (d) does not contribute to an elevated risk of a landslide to adjoining properties.	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. 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.	No community infrastructure is proposed.



20201457 - 41 Grays Creek Terrace, Mowbray

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;



20201457 – 41 Grays Creek Terrace, Mowbray

- (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 developme	For self-assessable and assessable development		
PO1	AO1	Complies with PO1	
Secondary dwellings: (a) are subordinate, small-scaled dwellings; (b) contribute to a safe and pleasant living environment; (c) are established on appropriately sized lots; (d) do not cause adverse impacts on adjoining properties.	The secondary dwelling: (a) has a total gross floor area of not more than 80m², excluding a single carport or garage; (b) is occupied by 1 or more members of the same household as the dwelling house.	The proposed Secondary Dwelling has a Gross Floor area of 88m². Whilst this is greater than the 80m² identified as an Acceptable Outcome, the proposed secondary dwelling would be subordinate to the primary dwelling and would have a footprint of less than half the existing dwelling and would be established on a large rural residential lot. It would not have an adverse impact on adjoining properties and would be	



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
		provided with an appropriate setback to the nearest side boundary.
		It is considered that notwithstanding that the proposed secondary dwelling is greater in size than the identified acceptable outcome, it complies with the Performance Outcome.
PO2	AO2	Complies with AO2
Resident's vehicles are accommodated on- site.	Development provides a minimum number of onsite car parking spaces comprising: (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.	The proposed Secondary Dwelling would provide an additional two undercover car parking spaces.
PO3 Development is of a bulk and scale that:	AO3	Complies with AO3 Refer to the assessment against the Zone code.



20201457 – 41 Grays Creek Terrace, Mowbray

Performance outcomes	Acceptable outcomes	Compliance
(a) is consistent with and complements the built form and front boundary setbacks prevailing in the street and local area;	Development meets the acceptable outcome for building height in the applicable Zone code associated with the site.	
(b) does not create an overbearing development for adjoining dwelling houses and their private open space;		
(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.		



Appendix 4.

EFFLUENT DISPOSAL REPORT



Site Classification

And

Wastewater Management System

For

Louise Bleier

At

47 Grays Creek Terrace

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 Louise Bleier to assess, design and report on Site Classification and a Domestic Wastewater Management System at 47 Grays Creek Terrace, Mowbray.

Real Property Description:-

Lot 22, on RP 740339

Local Authority: Douglas Shire Council.

It is understood the intention is to construct a new dwelling at the site.

A site and soil evaluation was carried out in April 2020.

SITE FACTORS:

The site was identified during a meeting with the owner on-site.

The Lot has an area of 12130 square metres, the proposed area is a clearing in the rainforest. The water supply to the site is from a bore at the front of the lot.

There is extensive rock outcrop at the site. An intermittent watercourse flows at the rear of the property.

Four Dynamic Cone Penetrometer tests were performed at locations DCP1 through to DCP4 and eight boreholes BH1 through BH8 as shown on the site plan.

Atterberg Limits tests were performed on a disturbed sample from Borehole 6.



Borehole being sampled at 47 Grays Creek Terrace, Mowbray



SITE INVESTIGATION REPORT

BOREHOLE LOG

CLIENT: Louise Bleier. DATE SAMPLED: 21/04/2020

PROJECT: 47 Grays Creek Terrace, Mowbray. Sampled by: G. Negri

REPORT DATE: 25/04/2020 Disturbed sample 0.6- 0.9m.

BOREHOLE No: BH1

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.2	Brown Clay-Silt with Gravel	Watertable not encountered
0.2	Rock	

BOREHOLE No: BH2

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.3	Brown Clay-Silt with Gravel	Watertable not encountered
0.3	Rock	

BOREHOLE No: BH3

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.2	Brown Clay-Silt with Gravel	Watertable not encountered
0.2	Rock	

BOREHOLE No: BH4

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.2	Brown Clay-Silt with Gravel	Watertable not encountered
0.2	Rock	

Ph: 4095 4734 Page 2 Apr-20 SI 182-20Report.doc



BOREHOLE LOG

CLIENT: Louise Bleier. DATE SAMPLED: 21/04/2020

PROJECT: 47 Grays Creek Terrace, Mowbray. Sampled by: G. Negri

REPORT DATE: 25/04/2020

BOREHOLE No: BH5

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.3	Brown Clay-Silt with Gravel	Watertable not encountered
0.3	Rock	

BOREHOLE No: BH6

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.2	Brown Clay-Silt with Gravel	Watertable not encountered
0.2-0.6	Grey-Brown Clay-Silt with Gravel	Disturbed sample 0.4- 0.6m.
0.6	Rock	

BOREHOLE No: BH7

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.5	Brown Clay-Silt	Watertable not encountered
0.5-0.7	Grey-Brown Clay-Silt with Gravel	
0.7	Rock	

BOREHOLE No: BH8

DEPTH (m)	DESCRIPTION	COMMENTS
0.0-0.7	Brown Clay-Silt with Gravel	Watertable not encountered
0.7	Rock	

Ph: 4095 4734 Page 3 Apr-20 SI 182-20Report.doc



ATTERBERG LIMITS TEST REPORT

CLIENT: Louise Bleier SAMPLE No: SI 182-20

PROJECT: 47 Grays Creek Terrace, Mowbray DATE SAMPLED: 21/04/2020

SAMPLE DETAILS: BH6 0.4-0.6m **Sampled by:** G. Negri

REPORT DATE: 25/04/2020 **Tested By:** P. Weigand

TEST METHOD	RESULT
Liquid Limit: AS 1289.3.9.2	35%
Plastic Limit: AS 1289.3.2.1	27%
Plasticity Index: AS 1289.3.3.1	8%
Linear Shrinkage: AS 1289.3.4.1	5.5%
Length Of Mould:	250.1mm
Cracking, Crumbling, Curling, Number Of Breaks:	Nil
Sample History:	Air Dried
Preparation Method:	Dry Sieved
Insitu Moisture Content:	7.3%
% Passing 0.075mm:	

Ph: 4095 4734 Page 4 Apr-20 SI 182-20Report.doc



DYNAMIC CONE PENETROMETER REPORT AS 1289.6.3.2

CLIENT: Louise Bleier SAMPLE No: SI 182-20

PROJECT: 47 Grays Creek Terrace, Mowbray. **DATE SAMPLED:** 21/04/2020

SAMPLE DETAILS: Sites "DCP1 through DCP4" as **Tested By:** G. Negri

per site plan.

REPORT DATE: 25/04/2020

DEPTH	Site: DCP1	Site: DCP2	Site: DCP3	Site: DCP4
(Metres)	No Blows	No Blows	No Blows	No Blows
0.0 - 0.1	8	9	9+	5
0.1 - 0.2	6	5+	Rock	6+
0.2 - 0.3	5+	Rock		Rock
0.3 - 0.4	Rock			
0.4 - 0.5				
0.5 - 0.6				
0.6 - 0.7				
0.7 - 0.8				
0.8 – 0.9				
0.9 – 1.0				
1.0 – 1.1				
1.1 – 1.2				
1.2 – 1.3				
1.3 – 1.4				
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

47 Grays Creek Terrace, Mowbray.

Extensive rock outcrops where noted at the site, this then made DCP testing to adequate depth unachievable.

The Dynamic Cone Penetrometer test results indicate adequate allowable bearing pressure to 0.5m.

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



SITE AND SOIL EVALUATION

47 Grays Creek Terrace, Mowbray.

The site and soil evaluation carried out on 21/04/2020 provided the following results.

Site Assessment

Site Factor	Result
Slope	4 degrees
Shape	Linear-Planar

Aspect East

Exposure Moderate – Some shade from trees.

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

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

Water table Not encountered during investigation. Fill Not encountered during investigation.

Flooding Not likely.
Channelled run-off Not found
Soil surface conditions Firm, Dry
Other site specific factors Depth of soil

Soil Assessment

Soil PropertyResultColourBrownTextureClay-LoamStructureWeakCoarse Fragments30%

Measured Permeability Ksat (m/d) Indicative Permeability 0.08-0.5

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 three (3) persons has been chosen for the proposed two bedroom granny flat. The population equivalent was agreed upon with the owner onsite.

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 (3 persons @ 150 L/person/day) will be 450 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 = 450/(20*2.35)= 9.6m.

Use one 9.6m long by 2.35m wide Advanced Enviro-Septic bed.

See site plan and detail cross-section.

<u>Its recommended that 1kg gypsum per m² be applied to the scarified base before laying the sand</u>

The depth of the system is to be confirmed on the day of installation by the plumber with an excavator. The system shall comply with the QLD plumbing and wastewater code setback regulations attached with this report.



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.

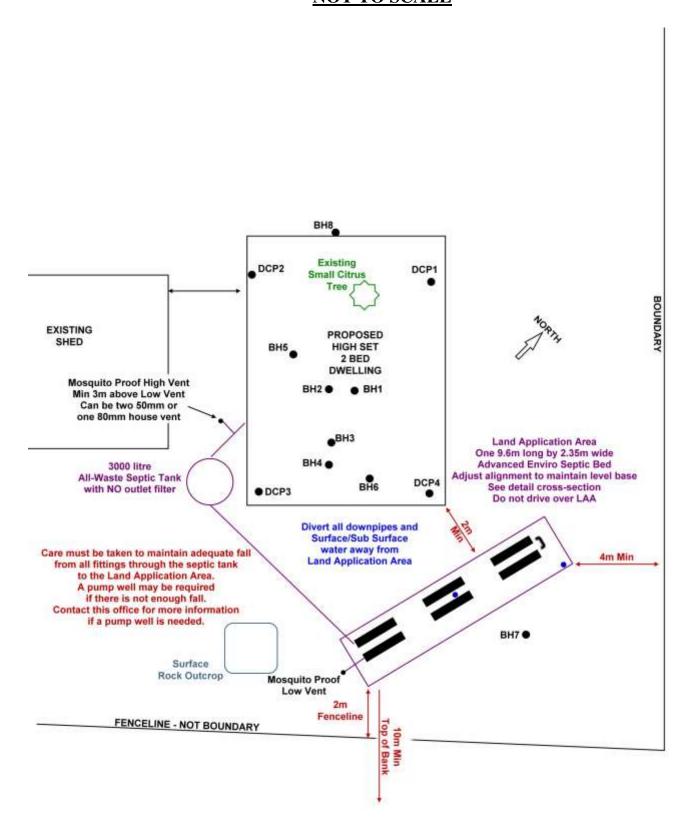
Gavin Negri Earth Test

Ph: 4095 4734 Page 10 Apr-20 SI 182-20Report.doc

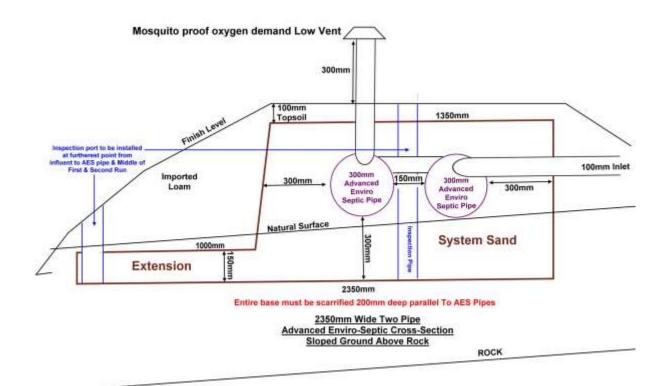


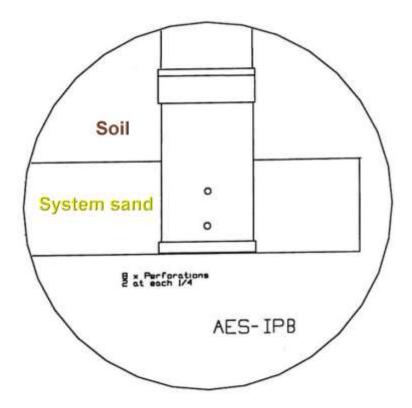
Consoil Solutions Pty. Ltd. T/A Earth Test QBCC #. 15092731

SITE PLAN 47 Grays Creek Terrace, Mowbray. NOT TO SCALE









AES Inspection point detail

Ph: 4095 4734 Page 12 Apr-20 SI 182-20Report.doc



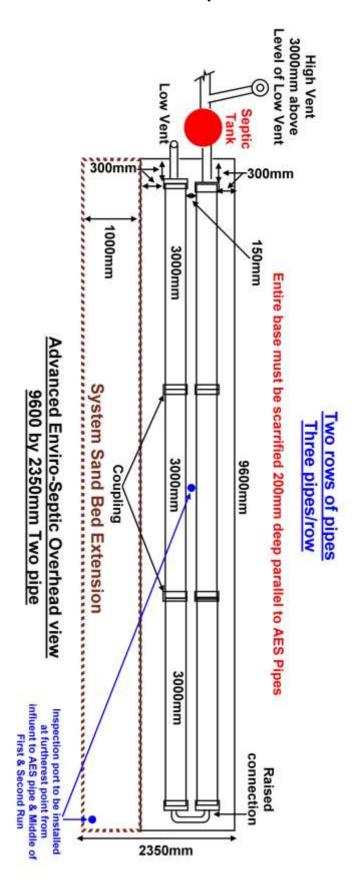




Table T5 - Setback distances for on-site sewerage facilities and greywater use facilities - Protection of surface water and groundwater.

Feature	Separation dis	tance 0	
For onsite – see Table 2.1 in AS 1546.3	Advanced Secondary	Secondary	Primary ⊘
For greywater – see Table 2.1 in AS 1546.4	Level 1 and Level 2	Level 3	Untreated
Top of bank of permanent water course			
Top of bank of intermittent water course			
Top of bank of a lake, bay or estuary			
Top water level of a surface water source used for agriculture, aquaculture or stock purposes	10	30	50
Open stormwater drainage channel or drain	7		
Bore or a dam	7		
Unsaturated soil depth to a permanent water table (vertically)	0.3	0.6	1.2

[•] Distances are given in metres and are measured from the edge of the irrigated wetted area to any point of the feature

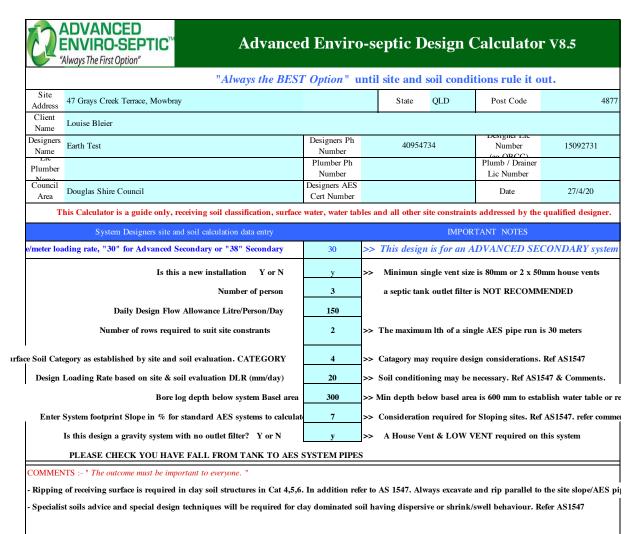
Table T2 – Setback distances for subsurface land application area for a greywater treatment plant or an on-site sewage treatment plant

ure Horizontal separation distance			ce 0
	Up slope	Down slope	Level
Property boundaries, pedestrian paths, walkways, recreation areas, retaining wall, and footings for buildings and other structures.	2	4	2
Inground swimming pools	6	6	6
Inground potable water tank not exposed to primary effluent	6	6	6
Inground potable water tank exposed to primary effluent	15	15	15

[•] Distances are given in metres and are measured from the edge of trench/bed excavation or subsurface irrigation distribution pipework to the nearest point of the feature

Ph: 4095 4734 Page 14 Apr-20 SI 182-20Report.doc

[•] Note: Primary effluent typically has a (BOD⁵) (Biochemical Oxygen Demand) of between 120 -240 mg/L and Total Suspended Solids of between 65 -180 mg/L.



- 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).	450	1/d			AES System	System Extension
Min Length of AES pipe rows to treat loading	7.5	lm		Lth m:(L)	9.6	9.6
Number of FULL AES Pipe lengths per row	3	lths	•	Width m:(W)	1.35	1.00
Total Capacity of AES System pipe in Litres	1272	ltr.		Sand Depth:	0.75	0.15
				Area m2	13.0	9.6
DO YOU WISH TO USE CUT LENGTHS OF PIPE IN THIS DESIGN? (ENTER Y)			_		
IF YOU WISH TO USE A TRENCH EXTENSION DESIGN OPTION	ON ENTER "	Υ"		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	9.6	х	2.35	=	22.6	m2 total

Code	AES System Bill of Materials.			Chankar Environmental Use Only
AES-PIPE AESC AESO AESODV	AES 3 mtr Lths required AESC Couplings required AESO Offset adaptors AES Oxgen demand vent	6 4 4 1	lths ea ea ea	Digitally signed I Steve Dennis DN: cn=Steve Dennis, o=Chanc Enviromental,
AES-IPB AES Equ	AES 100mm Inspection point base AES Speed Flow Equaliser	2	ea ea	Wature's Wastewater Solutions email=designrev @enviro-
	TOTAL SYSTEM SAND REQUIRED (Guide Only)	13	m3	septic.com.au, c= Date: 2020.04.27
	PLEASE email your AES CALC and Drawings to DESIGNREVIEW@ENVIRO-SEPTIC.COM.AU			08:27:45 +10'00' Designreview@enviro-septic.com.au

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

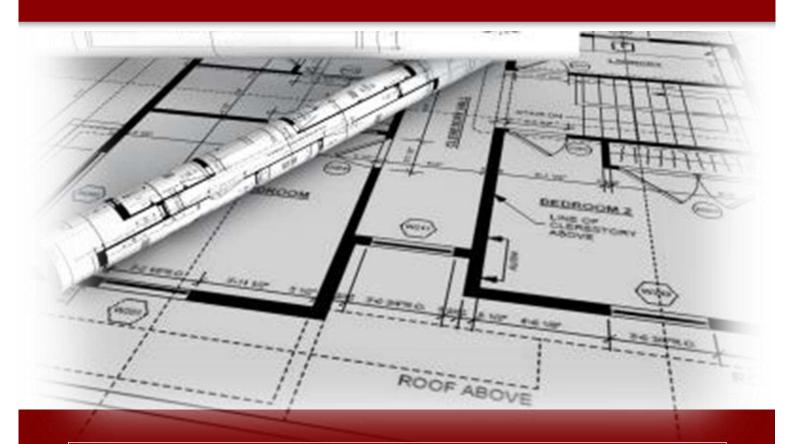
 $conditions \ \textit{referencing the AS 1547 standard are calculated and designed by a \textit{Quailified Designer.} \\$

- > 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



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