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DA Form 1 – Development application details

Approved form (version 1.3 effective 28 September 2020) made under section 282 of the Planning Act 2016.

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

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

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

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

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

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

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

PART 1 - APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	Dean Charles Mahoney Marie Frances Mahoney
Contact name (only applicable for companies)	Dean Mahoney
Postal address (P.O. Box or street address)	4069 Captain Cook Highway
Suburb .	Wangetti
State	Queensland
Postcode	4877
Country	Australia
Contact number	0447232666
Email address (non-mandatory)	Deantalk@iig.com.au
Mobile number (non-mandatory)	As above
Fax number (non-mandatory)	N/A
Applicant's reference number(s) (if applicable)	N/A

2) Owner's consent	
2.1) Is written consent of the owner required for this development application?	
☐ Yes – the written consent of the owner(s) is attached to this development application x No – proceed to 3)	



PART 2 – LOCATION DETAILS

Note: F	cation of the Provide details b Guide: Relevan	premises (con below and attach ht plans.	iplete 3. a site pla	1) or 3.2), and 3. an for any or all	3) as ap premises	plicable) s part of the develo	opment .	application. For further information, see <u>DA</u>
3.1) S	treet addres	s and lot on p	lan					A STATE OF THE STA
☐ Str	reet address	AND lot on pla AND lot on p g or adjacent to la	lan for	an adjoining	or adja	icent property	of the	premises (appropriate for development in
	Unit No.	Street No.	Stree	et Name and	Туре			Suburb
2)	exi-	4069	Capt	ain Cook Hig	hway		- 1	Wangetti
a)	Postcode	Lot No.	Plan	Plan Type and Nu		mber (e.g. RP, SP)		Local Government Area(s)
412	4877	12	NR7	187				Douglas Shire
	Unit No.	Street No.	Stree	et Name and	Туре		. 15	Suburb
b)				elit. Se	L In			
b)	Postcode	Lot No.	Plan	Type and Nu	ımber ((e.g. RP, SP)	A) S	Local Government Area(s)
e. Note: P	g. channel dred Place each set o ordinates of	dging in Moreton I of coordinates in a premises by I	Bay) a separat ongitud	te row.	le		art of a	lot or in water not adjoining or adjacent to land
Longit	ude(s)	Latitu	de(s)	- - - - -	Datur	n		Local Government Area(s) (if applicable)
☐ WGS84 ☐ GDA94 ☐ Other:								
Со	ordinates of	premises by e	easting	and northing				and the second second second
Eastin		Northing(s)		Zone Ref.	Datur	n		Local Government Area(s) (if applicable)
			R	☐ 54 ☐ 55 ☐ 56	□w	GS84 DA94 ther:		
3.3) A	dditional prei	mises						ACTIVITY OF THE STREET
☐ Add	ditional prem	And the second second second	ant to	this developn opment appli	nent ap	oplication and t	the det	tails of these premises have been
4) Ider	ntify any of th	ne following th	at app	ly to the pren	nises a	nd provide any	relev	ant details
-						bove an aquife		ant details
		dy, watercours			[30 v 3 u 1 u qu 2		
		rt land under t		•	tructur	e Act 1994	-	and the side of some of the factor of
		otion of strateg				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		ority for the lot						
	a tidal area				188		RUTH	
		ernment for the	e tidal	area (if applica	ible);			
		ority for tidal a			,			
					cturing	and Disposal)	Act 20	008
	of airport:				[

Listed on the Environmental Management Register	(EMR) under the Environmental Protection Act 1994
EMR site identification:	Spoling & - Purpose revestationed despite -
Listed on the Contaminated Land Register (CLR) ur	der the Environmental Protection Act 1994
CLR site identification:	The second section of the first
	Signapole en que en la carrol.
5) Are there any existing easements over the premises: Note: Easement uses vary throughout Queensland and are to be idea how they may affect the proposed development, see <u>DA Forms Guid</u>	ntified correctly and accurately. For further information on easements and
Yes – All easement locations, types and dimensions application	are included in plans submitted with this development
X No	

PART 3 - DEVELOPMENT DETAILS

Section 1 – Aspects of development

occion i hopeoto oi de	Volopinone	the second secon	
6.1) Provide details about th	e first development aspect		
a) What is the type of develo	pment? (tick only one box)		
X Material change of use	☐ Reconfiguring a lot	Operational work	☐ Building work
b) What is the approval type	? (tick only one box)		
X Development permit	☐ Preliminary approval	☐ Preliminary approval that	at includes a variation approval
c) What is the level of asses	sment?		
X Code assessment	☐ Impact assessment (require	res public notification)	
d) Provide a brief description lots):	n of the proposal (e.g. 6 unit apart	tment building defined as multi-unit o	dwelling, reconfiguration of 1 lot into 3
Dwelling House (Secondary	Dwelling)		
e) Relevant plans Note: Relevant plans are required to Relevant plans.	to be submitted for all aspects of this o	development application. For furthe	r information, see <u>DA Forms guide:</u>
X Relevant plans of the prop	oosed development are attache	ed to the development applic	ation
6.2) Provide details about the	e second development aspect		
a) What is the type of develo	pment? (tick only one box)		
☐ Material change of use	Reconfiguring a lot	Operational work	Building work
b) What is the approval type	? (tick only one box)		
Development permit	☐ Preliminary approval	☐ Preliminary approval the	at includes a variation approval
c) What is the level of asses	sment?		
Code assessment	☐ Impact assessment (require	res public notification)	
d) Provide a brief description <i>lots</i>):	า of the proposal (e.g. 6 unit apart	tment building defined as multi-unit o	dwelling, reconfiguration of 1 lot into 3
e) Relevant plans Note: Relevant plans are required to Relevant plans.	o be submitted for all aspects of this o	development application. For further	information, see <u>DA Forms Guide:</u>
Relevant plans of the pro	posed development are attach	ned to the development appli	ication
6.3) Additional aspects of de	velopment		
	relopment are relevant to this on nder Part 3 Section 1 of this fo		

Section 2 – Further develop	ment det	ails				
7) Does the proposed develop			ny of the fol	lowing?		2520.00
Material change of use					t a local planning instr	ument
Reconfiguring a lot		complete divis				
Operational work	Yes -	complete divis	ion 3			
Building work	☐ Yes –	complete DA	-orm 2 – Bui	ilding work dei	tails	
Division 1 – Material change of	of use			M. F.		
Note: This division is only required to be		any part of the dev	elopment appli	cation involves a	material change of use asse	essable against
local planning instrument. 8.1) Describe the proposed ma						
Provide a general description o		Provide the pl	anning scho	me definition	Number of dwelling	Cross flee
proposed use		(include each def			Number of dwelling units (if applicable)	Gross floor area (m²) (if applicable)
Secondary Dwelling		Dwelling Hous	е		1	92m2
				B) (3, 13, 5	page oring an	
						the plat A
8.2) Does the proposed use inv	olve the us	e of existing b	uildings on t	he premises?		
∐ Yes		visitation (1000	The section of	1.7314.100	
X No					Salah Series Line Committee Committee	
Division 2 – Reconfiguring a lo	ot			×		
Note: This division is only required to be o	completed if a	ny part of the dev	elopment applic	ation involves red	configuring a lot.	
9.1) What is the total number of	f existing lo	ts making up t	ne premises	?		
0.0) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
9.2) What is the nature of the lo	t reconfigui					
Subdivision (complete 10))					agreement (complete 1)	***
Boundary realignment (compl	Boundary realignment (complete 12))		☐ Creating or changing an easement giving access to a lot from a constructed road (complete 13))			
40.0						
10) Subdivision					State State State	
10.1) For this development, how					ded use of those lots:	
Intended use of lots created	Resident	ial Coi	mmercial	Industrial	Other, please	specify:
Number of lots created	-				tana oo e bala	
	and O	S AND LEVEL	国在农村签 医牙			
10.2) Will the subdivision be sta Yes – provide additional deta		医型光发表系统	奉《是此份》			
No	WOISU GILE					

How many stages will the works include?

What stage(s) will this development application apply to?

tended use of pa	rts created	Residential	Comr	nercial	Industrial	Other, please spe	ecify:
umber of parts cr	eated	Bers och view			011		
2) Boundary reali							
2.1) What are the			s for each lot	comprisin		oposed lot	
Current ot on plan description A		Area (m²)		Lot on pla	n description	Area (m²)	
			2	Tarage II and			
						Costa entint Costa	
.2) What is the re	eason for th	e boundary reali	gnment?				3
					International International		
) What are the d	imensions a	nd nature of any	y existing ea	sements b	eing changed ar	nd/or any proposed ease	eme
						Identify the land/lot(s	
		1 11 ()				I identify the land/lot(s	
isting or	Width (m)	Length (m)	Purpose of pedestrian ac		Heritr (e.g.	benefitted by the eas	
isting or		Length (m)			nent? (e.g.		
kisting or		Length (m)			nentr (e.g.		
tach schedule if there kisting or oposed?		Length (m)			ment? (e.g.		
kisting or oposed?	Width (m)	entre Epositi	pedestrian ad	ccess)		benefitted by the eas	
sisting or opposed? sion 3 – Operate of this division is only	Width (m)	completed if any pa	pedestrian ac	ccess)		benefitted by the eas	
isting or opposed? sion 3 — Operation of the side of	Width (m)	completed if any pa	pedestrian ac	ocess) pment applica	ation involves operat	benefitted by the eas	
sion 3 – Operation of the division is only This division is only Noad work	Width (m)	completed if any pa	pedestrian ac	ocess) oment applica	ation involves operat ☐ Water	benefitted by the eas	
kisting or opposed? sion 3 — Operation is only only only only only only only only	Width (m)	completed if any pa	rt of the develop k? Stormwate	ocess) oment applica	ation involves operat	ional work.	
sion 3 – Operate : This division is only .1) What is the nall Road work Drainage work Landscaping	Width (m) tional work required to be	completed if any pa	rt of the develop k? Stormwate Earthworks	ocess) oment applica	ation involves operat	ional work. infrastructure e infrastructure	
sion 3 – Operation of the control of	Width (m) tional work required to be ature of the	completed if any pa operational wor	rt of the develop k? Stormwate Earthworks Signage	ocess) coment applica r	ation involves operat Water Sewag	ional work. infrastructure e infrastructure ng vegetation	
sion 3 – Operation of the composed? sion 3 – Operation is only 1) What is the north of the composed work Drainage work Landscaping Other – please	Width (m) tional work required to be ature of the specify: onal work n	completed if any pa operational wor	rt of the develop k? Stormwate Earthworks Signage	ocess) coment applica r	ation involves operat Water Sewag	ional work. infrastructure e infrastructure ng vegetation	
sion 3 – Operate This division is only 1.1) What is the new 1.2 Road work Drainage work Landscaping Other – please 1.2) Is the operating Yes – specify new 1.2	Width (m) tional work required to be ature of the specify: onal work n	completed if any pa operational wor	rt of the develop k? Stormwate Earthworks Signage	ocess) coment applica r	ation involves operat Water Sewag	ional work. infrastructure e infrastructure ng vegetation	
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sion 3 — Operate: This division is only 1.1) What is the new series work Drainage work Landscaping Other — please 2) Is the operati Yes — specify new series No 3) What is the new series	width (m) tional work required to be ature of the specify: onal work n umber of ne	completed if any participation operational working completed if any participation of the proposed completed in the proposed completed completed in the proposed completed completed in the proposed completed in the proposed completed in the proposed completed completed in the proposed completed completed in the proposed completed c	rt of the develop k? Stormwate Earthworks Signage	oment application of nethal	ation involves operat Water Sewag Clearin w lots? (e.g. subdi	ional work. infrastructure ie infrastructure g vegetation	
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sion 3 – Operation of the composed? sion 3 – Operation of the control of the control of the composed of the composed of the control of the composed of the co	width (m) tional work required to be ature of the specify: onal work n umber of ne	completed if any participation operational working completed if any participation of the proposed operational working completed if any participation of the proposed operation operation of the proposed operation of the proposed operation o	rt of the develop k? Stormwate Earthworks Signage itate the created operation	oment application of nethal work?	ation involves operat Water Sewag Clearin w lots? (e.g. subdi	ional work. infrastructure e infrastructure ng vegetation vision)	
sion 3 – Operation of the composed? sion 3 – Operation of the composed? sion 3 – Operation of the composed o	width (m) tional work required to be ature of the specify: onal work n umber of ne nonetary val ESSME	completed if any particles operational work operational work of acid where the proposed of the proposed of the proposed of the proposed operation operation of the proposed operation operation of the proposed operation operat	rt of the develop k? Stormwate Earthworks Signage itate the created operation ER DETA vill be assess	poment application of network?	ation involves operate Water Sewag Clearing W lots? (e.g. subdite	ional work. infrastructure e infrastructure ng vegetation vision) als and labour)	seme
sion 3 – Operation of the composed? sion 3 – Operation of the control of the con	width (m) tional work required to be ature of the specify: onal work n umber of ne nonetary val ESSME	completed if any particles operational work operational work of acid where the proposed of the proposed of the proposed of the proposed operation operation of the proposed operation operation of the proposed operation operat	rt of the develop k? Stormwate Earthworks Signage itate the created operation ER DETA vill be assess	poment application of network?	ation involves operate Water Sewag Clearing W lots? (e.g. subdite	ional work. infrastructure e infrastructure ng vegetation vision)	seme

PART 5 - REFERRAL DETAILS

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

☐ Heritage places – Local heritage places	STATE OF STREET	en a surroug _ t troke
Matters requiring referral to the Chief Execu		mission entity:
☐ Infrastructure-related referrals – Electricit	y infrastructure	
Matters requiring referral to:	object and authorize plantation is a first	
 The Chief Executive of the holder of the 		
 The holder of the licence, if the holder 	of the licence is an individual	the state of the s
☐ Infrastructure-related referrals – Oil and g	gas infrastructure	Contract Contract
Matters requiring referral to the Brisbane Ci ☐ Ports – Brisbane core port land	ty Council:	ecity and a
Matters requiring referral to the Minister res ☐ Ports – Brisbane core port land (where inco ☐ Ports – Strategic port land		
Matters requiring referral to the relevant por Ports – Land within Port of Brisbane's po	그러나 있다는 그렇게 되었다는 것 같아요. 그는 사람들이 되었다면 하는 것이 없는 수 있다면 그렇게 되었다면 가는 그리고 있었다.	itor:
Matters requiring referral to the Chief Execu	itive of the relevant port authority:	1990年16月2日 - 1990年1月1日 - 1997日 - 1997
Ports – Land within limits of another port		
Matters requiring referral to the Gold Coast Tidal works or work in a coastal manager		reconstruction of the second of the second
Matters requiring referral to the Queensland	Fire and Emergency Service:	The Committee of the Co
☐ Tidal works or work in a coastal manager		vessel herths))
I ridal Works of Work in a coastal manager	, , , , , , , , , , , , , , , , , , ,	,
10)	wal was a same familia da valan mant annis	option?
18) Has any referral agency provided a refer		
Yes – referral response(s) received and I	isted below are attached to this develop	ment application
X No		
Referral requirement	Referral agency	Date of referral response
Identify and describe any changes made to treferral response and this development appl (if applicable).	he proposed development application the proposed development application the ication, or include details in a schedule t	nat was the subject of the to this development application
	The state of the s	
t in the second		
PART 6 - INFORMATION REQU	IEST	
19) Information request under Part 3 of the D	OA Rules	
X I agree to receive an information request if	determined necessary for this developr	ment application
I do not agree to accept an information re	equest for this development application	
Note: By not agreeing to accept an information request		
 that this development application will be assessed application and the assessment manager and any Rules to accept any additional information provide parties 	referral agencies relevant to the development ap	plication are not obligated under the DA
Part 3 of the DA Rules will still apply if the application		he DA Rules.
Further advice about information requests is contained		

PART 7 – FURTHER DETAILS

20) Are there any associated of	development applications or curre	ent appr	ovals? <i>(e.g. a pre</i>	eliminary approval)
	or include details in a schedule			
X No		17 BOD - 1	TING-BOTE	To where so that and
List of approval/development application references	Reference number	Date		Assessment manager
☐ Approval ☐ Development application			1000000	
☐ Approval ☐ Development application				
21) Has the portable long serv	ice leave levy been paid? (only ap	plicable to	development appli	ications involving building work or
operational work)				
	ed QLeave form is attached to the			
	ovide evidence that the portable I les the development application.			
give a development approv	al only if I provide evidence that t	he porta	able long service	e leave levy has been paid
X Not applicable (e.g. building	and construction work is less tha	in \$150,	000 excluding (GST)
Amount paid	Date paid (dd/mm/yy)	JOHN THE	QLeave levy n	number (A, B or E)
\$		771		raja sa saka sa
notice? Yes – show cause or enforce X No	to the second of	e notice	or required as a	a result of an enforcement
23) Further legislative requirem	The state of the s			
Environmentally relevant act				
Environmentally Relevant Ac	cation also taken to be an applica ctivity (ERA) under section 115 c	of the Er	nvironmental Pro	otection Act 1994?
accompanies this developm	ent (form ESR/2015/1791) for an ent application, and details are p	applicat rovided	tion for an envir in the table belo	onmental authority ow
X No	authority can be found by searching "ES	D/0015/1:	704#	
requires an environmental authority to	operate. See <u>www.business.qld.gov.au</u> f	or further i	nformation.	rm at <u>www.qid.gov.au</u> . An EKA
Proposed ERA number:	Prop	osed E	RA threshold:	
Proposed ERA name:				
☐ Multiple ERAs are applicabl this development application	e to this development application า.	and the	e details have b	een attached in a schedule to
Hazardous chemical facilities				
23.2) Is this development applied	cation for a hazardous chemica	l facility	?	
Yes – Form 69: Notification application	of a facility exceeding 10% of sc			attached to this development
X No				
Note: See <u>www.business.qld.gov.au</u> fo	r further information about hazardous ch	emical not	ifications.	

Clearing native vegetation
23.3) Does this development application involve clearing native vegetation that requires written confirmation that the chief executive of the <i>Vegetation Management Act 1999</i> is satisfied the clearing is for a relevant purpose under section 22A of the <i>Vegetation Management Act 1999</i> ?
Yes – this development application includes written confirmation from the chief executive of the <i>Vegetation Management Act 1999</i> (s22A determination)
 X No Note: 1. Where a development application for operational work or material change of use requires a s22A determination and this is not included, the development application is prohibited development. 2. See https://www.qld.gov.au/environment/land/vegetation/applying for further information on how to obtain a s22A determination.
Environmental offsets
23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a prescribed environmental matter under the <i>Environmental Offsets Act 2014</i> ?
Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter X No
Note: The environmental offset section of the Queensland Government's website can be accessed at www.qld.gov.au for further information on environmental offsets.
Koala habitat in SEQ Region
23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?
☐ Yes – the development application involves premises in the koala habitat area in the koala priority area ☐ Yes – the development application involves premises in the koala habitat area outside the koala priority area X No
Note: If a koala habitat area determination has been obtained for this premises and is current over the land, it should be provided as part of this development application. See koala habitat area guidance materials at www.des.qld.gov.au for further information.
Water resources
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?
Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development
X No Note: Contact the Department of Natural Resources, Mines and Energy at www.dnrme.qld.gov.au for further information.
DA templates are available from https://planning.dsdmip.qld.gov.au/ . If the development application involves:
 Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1 Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2
Taking overland flow water: complete DA Form 1 Template 3.
<u>Waterway barrier works</u> 23.7) Does this application involve waterway barrier works?
☐ Yes – the relevant template is completed and attached to this development application
X No
DA templates are available from https://planning.dsdmip.qld.gov.au/ . For a development application involving waterway barrier works, complete DA Form 1 Template 4.
Marine activities
23.8) Does this development application involve aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants?
☐ Yes – an associated <i>resource</i> allocation authority is attached to this development application, if required under the <i>Fisheries Act 1994</i>
X No

Quarry materials from a watercourse or lake		
23.9) Does this development application involve the reunder the <i>Water Act 2000?</i>	emoval of quarry material	s from a watercourse or lake
☐ Yes – I acknowledge that a quarry material allocati X No	on notice must be obtained	prior to commencing development
Note: Contact the Department of Natural Resources, Mines and En	ergy at <u>www.dnrme.qld.qov.au</u> and	d www.business.qld.gov.au for further
information.		
Quarry materials from land under tidal waters		
23.10) Does this development application involve the under the Coastal Protection and Management Act 19	95?	
☐ Yes – I acknowledge that a quarry material allocati X No	on notice must be obtained	prior to commencing development
Note: Contact the Department of Environment and Science at www.	<u>.des.qld.gov.au</u> for further informat	tion.
Referable dams		
23.11) Does this development application involve a re section 343 of the <i>Water Supply (Safety and Reliability</i>	ferable dam required to be // Act 2008 (the Water Supp	failure impact assessed under oly Act)?
Yes – the 'Notice Accepting a Failure Impact Asses Supply Act is attached to this development applicat	ssment' from the chief exection	utive administering the Water
X No Note: See guidance materials at www.dnrme.gld.gov.au for further in	information	
Tidal work or development within a coastal manag	CANADA RESPECTATION STATES	S. S
23.12) Does this development application involve tidal		a coastal management district?
 ☐ Yes – the following is included with this developme ☐ Evidence the proposal meets the code for as if application involves prescribed tidal work) ☐ A certificate of title 		is prescribed tidal work (only required
X No Note: See guidance materials at www.des.qld.gov.au for further info	ormation	
Queensland and local heritage places	matori.	NUMBER OF STREET
23.13) Does this development application propose development a	relopment on or adjoining a ernment's Local Heritage R	place entered in the Queensland Register?
☐ Yes – details of the heritage place are provided in t	he table below	in the figure of the second state of
X No		
Note: See guidance materials at www.des.qld.gov.au for information	requirements regarding developn	nent of Queensland heritage places.
Name of the heritage place:	Place ID:	
<u>Brothels</u>		
23.14) Does this development application involve a ma	iterial change of use for a	brothel?
Yes – this development application demonstrates h application for a brothel under Schedule 3 of the <i>Pr</i> X No		code for a development
Decision under section 62 of the Transport Infrastr	ucture Act 1994	
23.15) Does this development application involve new	STREET, STREET	te-controlled road?
☐ Yes – this application will be taken to be an application Infrastructure Act 1994 (subject to the conditions in satisfied) X No	ion for a decision under sec section 75 of the <i>Transport</i>	ction 62 of the <i>Transport</i> Infrastructure Act 1994 being

Walkable neighbourhoods assessment benchmarks under Schedule 12A of the Planning Regulation	
23.16) Does this development application involve reconfiguring a lot into 2 or more lots in certain residential zones (except rural residential zones), where at least one road is created or extended?	
Yes – Schedule 12A is applicable to the development application and the assessment benchmarks contained in schedule 12A have been considered	
X No	
Note: See guidance materials at www.planning.dsdmip.qld.gov.au for further information.	

PART 8 - CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 Note: See the Planning Regulation 2017 for referral requirements	X Yes
If building work is associated with the proposed development, Parts 4 to 6 of <u>DA Form 2 – Building work details</u> have been completed and attached to this development application	☐ Yes X Not applicable
Supporting information addressing any applicable assessment benchmarks is with the development application Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see DA Forms Guide: Planning Report Template .	X Yes
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 information, see <u>DA Forms Guide: Relevant plans.</u>	X Yes
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)	☐ Yes X Not applicable

25) Applicant declaration

- X By making this development application, I declare that all information in this development application is true and correct
- X Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications 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 *Electronic Transactions Act 2001*

Note: It is unlawful to intentionally provide false or misleading information.

Privacy – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any relevant referral agency and/or building certifier (including any professional advisers which may 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 *Planning Act 2016*, Planning Regulation 2017 and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the Planning
 Act 2016 and the Planning Regulation 2017, and the access rules made under the Planning Act 2016 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 *Public Records Act 2002.*

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

Date received:	Reference numl	ber(s):	
Notification of engagement of	of alternative assessment mar	agger	
Prescribed assessment man	The second secon	lagei	
Frescribed assessment man	lagei,		
Name of chosen assessmen	t manager	Mar Hee Illa	
Date chosen assessment ma	anager engaged		
Contact number of chosen a	ssessment manager		
Relevant licence number(s) manager	of chosen assessment		
QLeave notification and pays			
Description of the work		and the second second	
QLeave project number			
Amount paid (\$)		Date paid (dd/mm/yy)	
Date receipted form sighted	by assessment manager		
Name of officer who sighted	the form	, a , a , a , a , a , a , a , a , a , a	× 2

TOWN PLANNING REPORT – DEVELOPMENT APPLICATION FOR A MATERIAL CHANGE OF USE (CODE ASSESSABLE) FOR A DWELLING HOUSE (SECONDARY DWELLING) LOCATED AT 4069 CAPTAIN COOK HIGHWAY, WANGETTI ON LOT12 CPNR7187

The below is a town planning report to accompany the Development Application seeking a Development Permit for a Material Change of Use for a Dwelling House (Secondary Dwelling) located at 4069 Captain Cook Highway, Wangetti on Lot 12 CPNR7187.

An application was approved for a secondary dwelling on 24 March 2021, however the design of the secondary dwelling really didn't take advantage of the ability to construct a secondary dwelling on the land and therefore a change in the design has taken place, notwithstanding all other elements of the proposal remain the same with regard to the location, onsite waste water disposal and access. Rather than seeking a change to the existing approval, a new application has been pursued. As a consequence, the information and supporting material remains largely the same except for the plans of the proposed development as attached.

The report contains a description of the proposed development (including plans) and the subject premises and an assessment of the proposed development against the relevant matters contained in the Douglas Shire Planning Scheme 2018.

The report concludes that despite a minor departure from the permissible area of GFA for a secondary dwelling, the proposed development complies with the planning requirements and it is requested that Council favorably consider and approve the proposed development subject to reasonable and relevant conditions.

STATUTORY FRAMEWORK

Under the Planning Act 2016, the Development Application is required to be made for a Material Change of Use for a Dwelling House (Secondary Dwelling). Secondary Dwellings are included in the definition for a Dwelling House under the Douglas Shire Planning Scheme 2018.

The proposed development (Dwelling House) is development made assessable (Code Assessment) under a local categorising instrument (Douglas Shire Planning Scheme 2018).

The Assessment Manager for this development application is Douglas Shire Council as determined by Schedule 8 of the Planning Regulation 2017.

The proposed development does not require public notification or trigger referral to any referral agency.

THE PREMISES

The subject premises is located at 4069 Captain Cook Highway, Wangetti on Lot 12 CPNR7187 as shown below. The applicant is the registered owner of the premises. A Smart Map of the premises and a title search is contained in Attachment 2.

The premises has an area of 18000m, with frontage to the Captain Cook Highway and is unencumbered by any easements or covenants. The premises are bounded to the east, west and south by the Wet Tropics World Heritage Area. Hartley's Creek approximately forms the northern boundary to the site.

The broader site is relatively flat (located within the 0-10m contour). The site primarily drains to the front and north of the premises towards Hartley's Creek. Anecdotally, the premises is not significantly impacted by flood or erosion.

The proposed location of the secondary dwelling is on and existing cleared and benched area on top of the bank approximately 15m from Hartley's Creek. The existing cleared and benched area is approximately 7m above Hartley's Creek. The profile from Hartley's Creek to the proposed location of the secondary dwelling is indicatively illustrated on the photo below.



As discussed in the above section, the site was the former Hartley's Creek Zoo and Crocodile Farm and as such there are a number of buildings and structures existing on the premises. The existing main residence (occupied by Mr D Mahoney) is an expansive dwelling with large garage to the south. In addition to the existing dwelling there are two class 1a habitable 1 bedroom buildings on the premises. These have been intermittently used since the owners purchased the property and are currently unused and in varying state of repair.

A popular recreational trail to Wangetti Falls accessed from the Captain Cook Highway at the entrance to the premises. As such, the entrance to the premises is often used as an informal carpark to the trail.

The premises are wholly located within the Environmental Management Zone in the Douglas Shire

Planning Scheme 2018, as shown below.



THE PROPOSED DEVELOPMENT

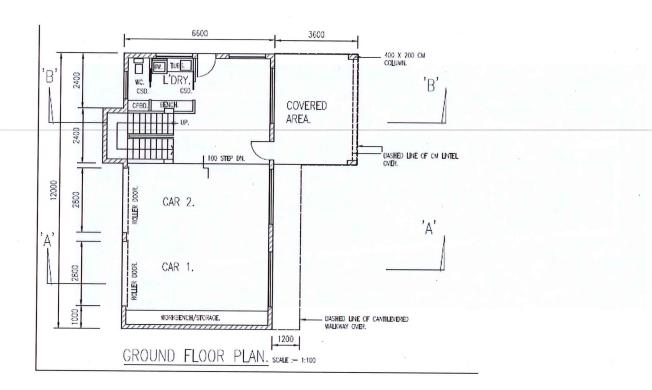
The Development Application seeks a Development Permit for a Material Change of Use for a Dwelling House (Secondary Dwelling) located at 4069 Captain Cook Highway, Wangetti on Lot 12 CPNR7187.

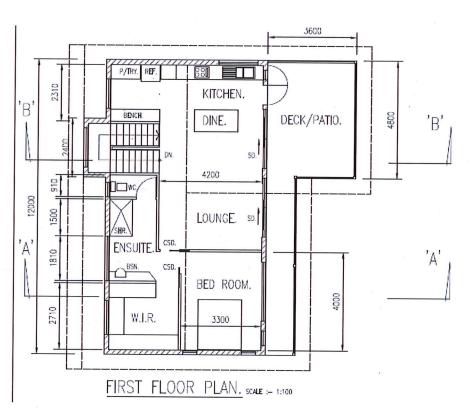
Site and design plans shown in the below report are contained in Attachment 1 for reference.

The proposed development involves the establishment of a secondary dwelling for Mrs M Mahoney so that she can reside on the same premises as her son Mr D Mahoney. It is noted that since the previous approval being issued in March 2021, there has been recent changes to the planning legislation that allows secondary dwellings to be separately let.

The design of the dwelling now proposed is two storeys in height with car accommodation and a laundry on the ground floor and a bedroom, dining and kitchen on the second floor.

Floor plans showing ground floor and first floor is provided below.





The total gross floor area as shown in the pans at Attachment 1 is 92m2. While not shown on the plans it is requested that the approval provide the ability to create another room nominated as "covered area' on ground level to make the dwelling a little more practical and functional in the future. The enclosure of this space would increase the GFA by and additional 17.28m2 ($3.6m \times 4.8m$) providing a total of approximately $110m^2$. The ability to increase the GFA will have no impact on the development footprint and the secondary dwelling would remain subservient to the principle residence.

The location of the secondary dwelling remains in the same location as that approved in March 2021 being approximately 40m west of the existing two storey residence as detailed below.



Proposed location of Secondary Dwelling



Cleared area in proposed location of Secondary Dwelling

The proposed water supply and treatment of wastewater remains the same as that which was considered and approved by Council in March 2021. In this respect it is requested that the same conditions apply to this assessment as to what was applied to the previous approval.

Notwithstanding this request, a copy of the onsite wastewater system overview and onsite sewerage facility site and soil report is provided at Attachment 3.

THE PLANNING FRAMEWORK

The statutory planning framework that requires the development application to be made is described previously in this report. The following describes the State and Local planning framework relevant to the consideration and assessment of this application.

State Planning Framework

The following State Planning elements are applicable to the proposed premises and development: MSES Wildlife Habitat and Regulated Vegetation, Coastal Management District, Bushfire Prone Area, Erosion Prone Area and Storm Tide Inundation Area.

These State Planning elements have been appropriately incorporated into the Douglas Shire Planning Scheme 2018 and therefore it is considered that an assessment against the Planning Scheme will appropriately respond to any State Planning Policy matters.

Local Planning Framework

The local planning instrument is the Douglas Shire Planning Scheme 2018. The following are the aspects of the Douglas Shire Planning Scheme 2018 relevant to the assessment of the proposed development:

Zone - the proposed development is located on a premises within the Environmental Management Zone.

Local Plan - the proposed development is not located on a premises within a Local Plan area.

Level of assessment - The level of assessment specified in Part 5 – Tables of Assessment for the proposed development of a Dwelling House in the Environmental Management Zone is **Code Assessment**.

Overlays - The premises are identified within the extents of the following overlays:

Acid Sulfate Soils	Acid Sulfate Soils (5-20m AHD) Acid Sulfate Soils (< 5m AHD)		
Bushfire	Potential Impact Buffer		
Coastal Environment	Coastal Management District Erosion Prone Area		
Flood and Storm Tide Hazard	Medium Storm Tide Hazard Floodplain Assessment Overlay		
Hillslopes	Area affected by Hillslopes		
Landscape Values	Scenic route buffer High landscape values		
Natural Areas	MSES - Regulated Vegetation MSES - Wildlife Habitat		
Transport Network	Transport Noise Corridor Road Hierarchy - Arterial Road and Major Transport Corridor Buffer Area (State Controlled Road) Pedestrian and Cycle Network - Iconic Recreation Route		

Assessment benchmarks – The assessment benchmarks (identified in the applicable elements above and in Part 5 - Tables of Assessment) contained in the following codes are relevant to the assessment of the proposed development:

Environmental Management Zone Code
Acid Sulfate Soils Overlay Code
Bushfire Overlay Code
Coastal Environment Overlay Code
Flood and Storm Tide Hazard Overlay Code
Hillslopes Overlay Code
Landscape Values Overlay Code
Natural Areas Overlay Code
Dwelling House Code
Access, Parking and Servicing Code
Infrastructure works Code
Vegetation Management Code

*It is noted that the premises are identified within the extents of the Transport Noise Corridors and the Transport Network Overlay Code, the Overlay Code is not identified as an applicable code for consideration in the assessment of the proposed development identified in the Tables of Assessment for the Environmental Management Zone.

PLANNING ASSESSMENT OF THE PROPOSED DEVELOPMENT

The proposed development has been assessed against the relevant provisions of the Douglas Shire Planning Scheme 2018. This application and attached material demonstrate that the proposed development complies with the applicable provisions of the Douglas Shire Planning Scheme 2018. As

such, it is considered appropriate that Council favourably consider the proposed development and approve the Development Application, subject to reasonable and relevant conditions.

Given that the proposed development largely remains unchanged with respect to the location and siting of the secondary dwelling to that previously considered and approved by Council, a full compliance statement assessment against all of the above codes is not provided. However a summary of the findings (as also detailed in the previous application) is re-submitted and updated where necessary to assist Council.

Summary

The proposed secondary dwelling is subordinate to the existing dwelling and is to be occupied by a member of the same household as the existing dwelling house notwithstanding the ability to separately let the dwelling as a consequence of recent changes to legislation.

As secondary dwellings are considered as part of, and included in the definition of a Dwelling House, the establishment of the proposed secondary dwelling on the premises is consistent with the purpose and outcomes sought for the zone.

It is not considered appropriate to use any of the existing buildings on site given their state of repair and, in particular their location to the existing dwelling. The establishment of a modern secondary dwelling in the location proposed is preferred as this location offers a high amenity, prominent creek front on an existing cleared area adjacent to the existing dwelling.

Additionally, the proposed development has been designed and located to consider and respond to the constraints present over the premises and ensures that it is appropriately serviced to the required standards.

Zone and Use Codes

The proposed development is consistent with the purpose and outcomes sought for the Environmental management zone and Dwelling house codes.

The proposed development reflects the preferred development outcomes for the Environmental management zone (a dwelling house is a preferred development outcome for the zone).

The proposed secondary dwelling is subordinate to the existing dwelling. As secondary dwellings are considered as part of, and included in the definition of a Dwelling House, there is no increase in residential density as there remains one principle dwelling house on the premises.

The proposed secondary dwelling is located on an area of the site which is already cleared and benched so no further major works are required to establish the dwelling.

Also, the lot is of appropriate size to accommodate the proposed secondary dwelling. The secondary dwelling is marginally over the assessment benchmark of 80m^2 of GFA which excludes deck areas and car accommodation. The proposed secondary dwelling as shown in Attachment 1 has a GFA of 92m^2 and up to approximately 110m^2 if the covered area on the ground floor was enclosed in the future to make the dwelling more practical and functional. As mentioned above, it is requested that Council include a condition in the approval which allows a maximum GFA of 110m^2 . The marginal increase is the allowable GFA is negated in this instance given the large isolated nature of the premises and that the secondary dwelling will not be visible from views external to the site. In addition, the development footprint remains the same with the open deck above on the 1^{st} floor.

Consideration of Constraints

Acid Sulfate Soils

The proposed development is located within the < 5m AHD and 5-20m AHD area of the Acid Sulfate Soils Overlay mapping present over the premises.

No bulk excavation or fill will be required to prepare the site for the establishment of the proposed secondary dwelling therefore avoiding the disturbance of any potential acid sulfate soils or actual acid sulfate soils present on the premises.

Bushfire

The proposed development is located within the Potential Impact Buffer area of the Bushfire Overlay mapping present on the premises. As it is not located within a Bushfire Hazard area the proposed development does not materially intensify vulnerable uses to the risk associated with Bushfire. Any risk of bushfire on people, property and the environment is minimised as the development is located on existing cleared and benched area located approximately 60m from the nearest bushfire hazard area on the premises.

Coastal Environment

The proposed development is located within the Coastal Management District and Erosion Prone Area of the Coastal Environment Overlay mapping present on the premises. The proposed development is located approximately 500m inland from the coastline on the banks of Hartley's Creek. Hartley's Creek is a well-established waterway corridor with no erosion or movement of the channel experienced in the locality to date.

The development is also located on and existing cleared and benched area on top of the bank approximately 7m above and 15m from Hartley's Creek. As such, the proposed development is of a scale and is located and designed to:

- avoid areas of coastal erosion risks; and

- maintain the natural processes operating in the area consistent with the intent of the overlay code; and
- not impact on natural coastal landscapes, views and vistas.

In addition, the proposed development reflects the preferred development outcomes in accordance with the zoning of the site (i.e. in the Environmental Management Zone where a dwelling house is a preferred development outcome in accordance with the zoning of the site) that satisfies the requirements of the overlay code.

Flood and Storm Tide Hazard

The Medium Storm Tide Hazard and Floodplain Assessment Overlay area of the Flood and Storm Tide Hazard Overlay mapping is present over the premises. Upon closer analysis of the overlay mapping it is considered that the proposed development is only located within the Floodplain Assessment Overlay area, as shown below.



Extent of the Flood and Storm Tide Hazard Overlay mapping

The proposed development is located on top of the bank of Hartley's Creek approximately 7m above and 15m from Hartley's Creek. There is no existing flood or storm tide data for the premises.

Anecdotally, the site is not significantly impacted by flood or storm tide during flood events with floodwaters primarily being contained within the channel of Hartley's Creek, having never breached the top of bank where the development is proposed to be located. It is important to note that the location and level of the proposed secondary dwelling is identical to that of the existing dwelling

which has not been impacted by floods. In addition, it is understood that Council rely on the building certification process to establish flood immunity in instances where Council does not have flood level data.

<u>Hillslopes</u>

The proposed development is located on parts of the site that are not within the Hillslopes constraint.

The proposed secondary dwelling is located on an area of the site which is already cleared and benched. No further excavation or fill or clearing or disturbance of vegetation is required to establish the secondary dwelling.

The proposed secondary dwelling is also of a scale that ensures that it does not adversely affect the amenity of the zone and adjoining land uses.

Landscape Values

The proposed development is located within the Scenic route buffer and High landscape values areas of the Landscape Values Overlay mapping present over the premises.

The proposed development is of a scale, is designed and located so that any impacts on the landscape values are negligible and do not adversely affect the amenity of the zone and adjoining land uses or scenic corridors. The proposed development is screened from view by an existing native vegetation buffer.

Natural Areas

The location of the proposed development is only located within the extent of the mapped MSES - Regulated Vegetation areas of the Natural Areas Overlay mapping present over the premises.

The establishment of a secondary dwelling is consistent with the planning intent for the zone for the premises. The minor scale, design and siting of the proposed development further minimises any adverse direct or indirect impacts on areas of environmental significance. Also, the proposed secondary dwelling is located on an area of the site which is already cleared and benched so no further major works are required to establish the dwelling.

Access, parking, infrastructure and vegetation management

Vehicular access to the secondary dwelling (and car port) is to be provided from the existing driveway via an unsealed driveway, approximately 40m in length. The driveway will be constructed and maintained to comply with the relevant requirements of Planning Scheme Policy 5 – FNQROC Development Manual.

The existing onsite water supply is via an intake from Hartley's Creek, treatment and storage in two 40,000L storage tanks located on land to the south of the premises. The proposed secondary dwelling will be connected to the internal reticulation network through the site.

The existing wastewater treatment and disposal systems is an underground anaerobic treatment and disposal system for a hydraulic flow of 3000L/day or organic loading or organic loading of 800 grams/day. The wastewater system overview and onsite sewerage facility site and soil report is contained in Attachment 4. The proposed secondary dwelling will be connected to the onsite wastewater treatment and disposal system.

There is a sufficient capacity within the existing onsite water supply and wastewater systems to accommodate the anticipated minor demand generated by the proposed secondary dwelling. For reference, the estimated daily use for a household (3 bedrooms) is 200-300L of water and production of wastewater.

The proposed development provides the required number car parking spaces (1 spaces) in accordance with the requirements of the Access, parking and servicing code.

The proposed secondary dwelling is located on an area of the site which is already cleared and benched. No further excavation or fill or clearing or disturbance of vegetation is required to establish the secondary dwelling.

Conditions may be placed on the Development Permit regarding the standards at which access, parking, water supply and wastewater infrastructure provision is required.

ATTACHMENTS

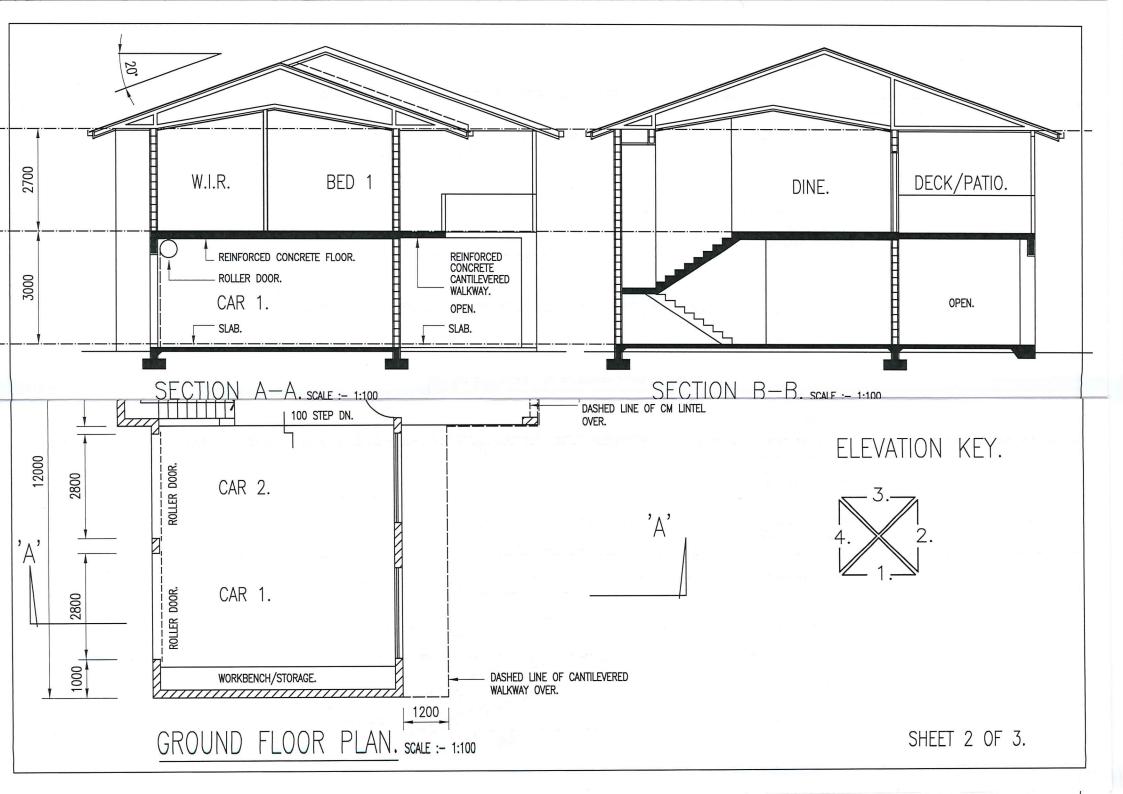
Attachment 1 - Proposed site and design plans.

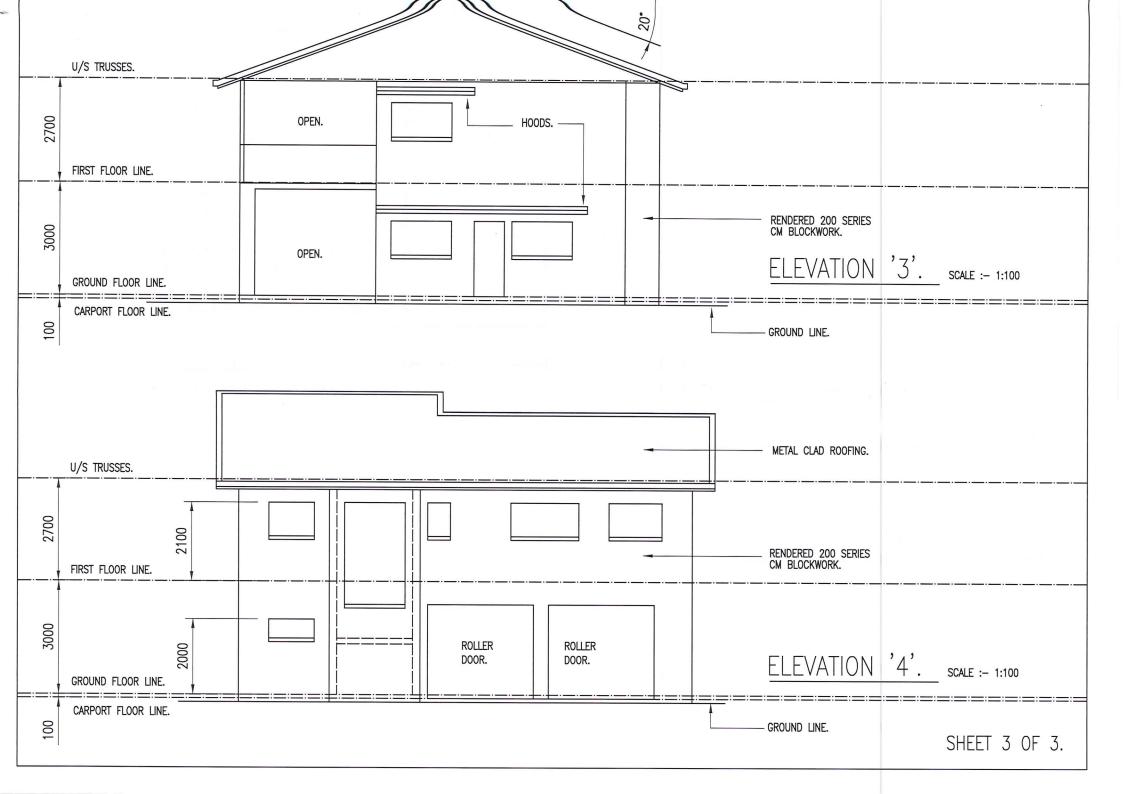
Attachment 2 – Smart map and title search for the premises.

Attachment 3 – Onsite wastewater system overview and onsite sewerage facility site and soil report.

Attachment 1 – Proposed Site and Design Plans

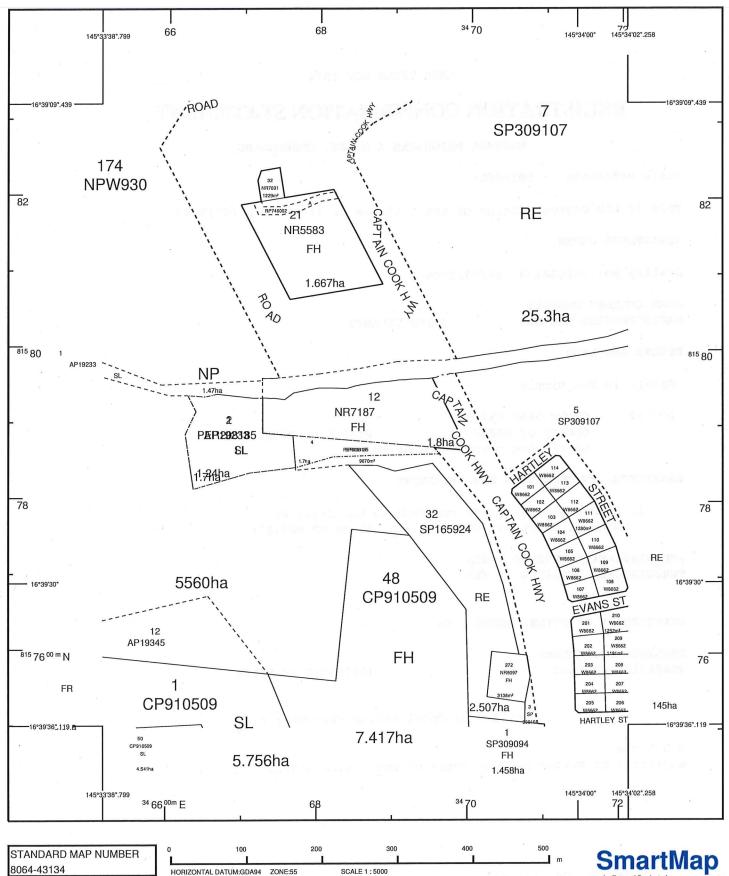






Attachment 2 – Smart Map & Title Search

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SUBJECT PARCEL DESCRIPTION CLIENT SERVICE STANDARDS

12/NR7187 Lot/Plan Area/Volume Tenure Local Government Locality

Segment/Parcel

1.8ha FREEHOLD DOUGLAS SHIRE WANGETTI 9868/51

PRINTED (dd/mm/yyyy) 01/02/2021

DCDB 30/01/2021

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SmartMap

SmartMap Information Services

Based upon an extraction from the Digital Cadastral Data Base



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LAND TITLE ACT 1994

REGISTRATION CONFIRMATION STATEMENT

NATURAL RESOURCES & MINES, QUEENSLAND

Title Reference : 50168624

This is the current status of the title as at 13:58 on 27/07/2005

REGISTERED OWNER

Dealing No: 708853132 26/07/2005

DEAN CHARLES MAHONEY
MARIE FRANCES MAHONEY

JOINT TENANTS

ESTATE AND LAND

Estate in Fee Simple

LOT 12

CROWN PLAN NR7187

County of NARES

Parish of DULANBAN

Local Government: DOUGLAS SHIRE

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by Deed of Grant No. 40010011 (Lot 12 on CP NR7187)

ADMINISTRATIVE ADVICES - NIL UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - No

DEALINGS REGISTERED 708853130 RELEASE

708853132 TRANSFER

** End of Confirmation Statement **

M G Locke Registrar Of Titles and Registrar Of Water Allocations

Lodgement No: 1957638

Email: tanya.pringle@farrellys.com.au

FARRELLYS

Office: CAIRNS

Box: 31

Attachment 3 – Onsite Waste Water System Overview & Site & Soil Evaluation Report



Non-chemical waste water treatment, re-use and monitoring systems

H20 Pure Plus®

Installation, Operation and Maintenance Manual

urban solutions
home and garden
industry and food processing
commercial buildings and
cooling towers
rural industry and farming
boating and marine
resort and recreation
sustainable schools

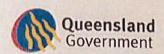
Congratulations!

You are now in possession of the finest wastewater treatment and re-use system available today.

The H2O Pure Plus® system has undergone the most rigorous water quality testing regime in Australia and has set new wastewater quality standards and achieving international quality assurance accreditation. The following certification applies:



NATA Accredited Laboratory – Ipswich City Council Environmental Laboratory



QLD. GOVT LOGO: Advanced Secondary Quality Effluent – approval by Queensland Plumbers & Drainers Board and Building Codes Queensland, July 2008

JAS-ANZ

AS/NZS 1546.1:1998

AS/NZS 1546.3:2001

AS 4020:2005

•AS/NZS ISO 9001:2000

•ISO14001: 2004

Joint Accreditation System - Australia and New Zealand

Australian/New Zealand Standard On-site domestic wastewater treatment units Part 1: Septic tanks.

Australian/New Zealand Standard On-site domestic wastewater treatment units Part 3: Aerated wastewater treatment systems.

Australian Standard for Testing of products for use in contact with drinking water, including types of water other than drinking water.

Quality Management System applicable to manufacture of pressed, injection moulded parts and assemblies for general industries.

The international Environmental Management Standard (EMS) relating to the environmental impact of corporate activities, products or services



Five ticks Standard Mark™ Australian Standard Certified Product independently quality assured by SAI Global.

The H2O Pure Plus® system is internationally patented and uses state-of-theart natural media and technology to purify wastewater to the highest standards yet possible without harming you or your environment. With proper handling, installation, and maintenance, your H2O Pure Plus® system will provide many years of faithful service, and will probably outlast the internal and other fittings to which it is attached.

Please review the material in this manual thoroughly before unpacking, handling and installing your H2O Pure Plus® system. Damage to your system through improper handling, installation, or maintenance will void your warranty.

System Overview

The H2O Pure Plus® system works through the anaerobic (free of oxygen) breakdown of solids and impurities within a sealed module (or modules), which contain a natural filtration media (not membrane). The system includes a submersible electric pump, which is used to transfer purified water to storage tanks for later use or for direct internal and external applications, such as irrigation. Also included is a proprietary real-time Monitoring unit, which measures water quality and other performance indicators of the system on a continuous basis. Some H2O Pure Plus® systems will also include a Zeta Rod™, an internationally patented ceramic electrode, which exposes particles suspended in water to electrostatic charges to minimise the build-up of fine deposits and bio-fouling. Please refer to separate Zeta Rod™ Installation, Operation and Maintenance Manual.

Depending on the H2O Pure Plus® system ordered, your system may include some or all of the following:

System Modules & Components

System:

- SAPS AWT (Sealed Anaerobic Purification System All Waste Treatment)
- SAPS GWT (Sealed Anaerobic Purification System Grey Water Treatment)
- SAPS BGSWT (Sealed Anaerobic Purification System Black/Grey Split Waste Treatment)

Modules:

- SAPS PTM (Primary Treatment Module)
- SAPS STM (Secondary Treatment Module)

Monitoring:

- SAPS MON-C (Monitoring Unit Commercial)
- SAPS MON-D (Monitoring Unit Domestic)

Submersible Pump:

H2O Pure Plus® supplies Feka 600 and Nova 600 submersible pumps with each system. DAB PUMPS S.p.a of Italy manufactures the pumps. Manufacturers Technical and Installation data sheets and Warranty are provided with each H2O Pure Plus® installation.

H2O Pure Plus® supplies the Sterilight Ultraviolet Water Sterilizer UV S12Q-PA made by R-CAN Environmental Inc of Ontario, Canada. The UV S12Q-PA disinfects up to 90 litres per minute and achieves 99.9% destruction of any bacteria and viruses.

Zeta Rod™ (Optional)

The Zeta Rod™ is a patented ceramic electronic biofouling and deposit control system manufactured by Zeta Corporation of Tucson Arizona in the U.S.

ATTENTION: Your H2O Pure Plus®system is comprised of carefully selected components that have been tested and proven reliable and compatible. Substitution or combination of non H2O Pure Plus® supplied components may result in improper operation or system failure, and may void your warranty. In case of doubt, contact H2O Pure Plus®.

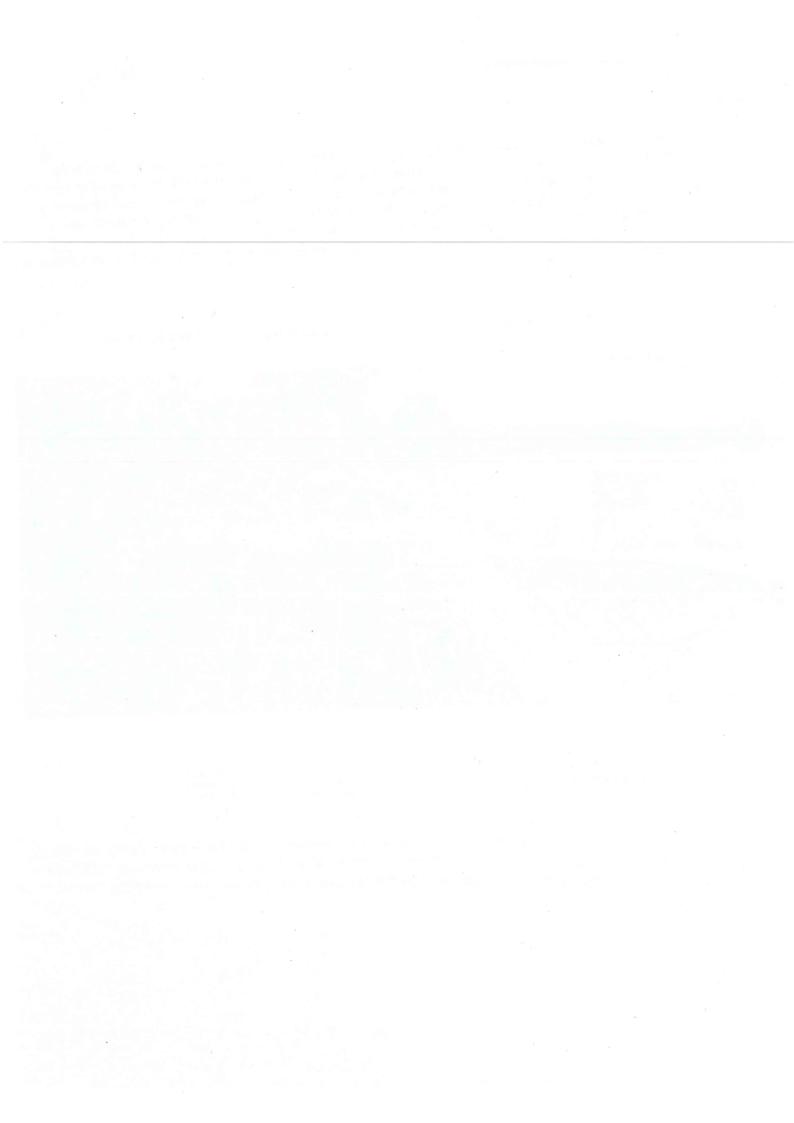


System:

The H2O Pure Plus® system naturally treats both grey and black (from the toilet/sanitation closet) water either contemporaneously or separately to the highest standards of purification available today. The system does not use artificial membranes or chemicals, such as chlorine, and requires no mechanical assistance or electrified blower for aeration of the wastewater. There is no requirement for monthly maintenance. In fluid disinfectant prior to dispersal and use, though the system does not depend on UV for the high levels of water quality and purification delivered.



The H2O Pure Plus® system usually comprises three separate models, which have been designed to suit most, if not all, domestic and commercial applications. Each installation is subject to individual application and fee and is subject to assessment and approval by the relevant approving authority. They are described on the following pages.



8/146 Anderson Street, Cairns 4870 PO Box 135 Bungalow, Qld 4870 Ph: (07) 40321468 Fax: (07) 40321754

Mobile: 0417 726656

A:

Email: admin@h2oconsultants.com.au

SITE EVALUATOR



- Hydraulic Design & Consulting Fire Protection Systems Backflow Prevention Certification

- Alternate Fire Solutions
- Wastewater Management

ON SITE SEWERAGE FACILITY SITE AND SOIL EVALUATION REPORT

Name:	Shane Bam	es
*	Signature: _	Date: 19.03.2010
B: SITE II	NFORMATIC	ON (desk-top evaluation)
Location Deta	ils,	equality and mark product the equilibrial
Locality:	Lot 12, Capta	ain Cook Highway, WANGETTI
Owner:	Dean Mahon	ву
Phone No:		Agist man on the manufacture of the second o
Survey Plan De	etails: SP	Lot No: 12
Local Governm	ent: Parish	: Cairns County: Nares
Site Plan Detail	ls Attached F	Ref. No. or Description: Proposed Residence, Site plan attached
		The second of the pign attached
Soli Type from	Soil Maps e	etc: N/A
Climate		
Annual Rainfall	: 2028 mm	Annual Potential Evapotranspiration: 2239 mm
		September 1 and the sent of the second of th
Intended Wate	r Supply Sou	irce:
Town Water Su	pply 🛩	Rainwater (Roof Collection)
Dam		Bore/Well
Other		age a regularly to be table to receive the state of the second to the second to



SITE AND SOIL EVALUATION REPORT

C:

SITE ASSESSMENT
Topography
Slope: Minimal Sloping Site
Ground Cover: Grass/Forestry
Geology: N/A
Drainage Patterns: (Site Plan details attached) HARTELYS CREEK
Available Clearances: (Site Plan details attached
Boundaries: 4 Meters from All Boundaries
Wells, Bores: 30 Meters Available
Embankments: 30 Meters Available
Stands of Trees, Shrubs: 30 Meters Available
Buildings: 4 Meters from All Buildings
Other:
Site History (Land Use): Unknown
Environmental Concerns: N/A
Site Stability:
Is expert Evaluation Necessary? Yes / No
If Yes, attach stability report and give details here of:
Author: Designation:
Company: Date:
Drainage Controls
Depth of Seasonal water table:
WINTER: NA SUMMER: NA
Need for groundwater cut-off drains?
Need for surface water collection / cut-off drains? Yes / Ne
Availability of Reserve / Setback Areas
Reserve Area available for disposal: 100 % of design area:
Setback area: 100 % (between site development and on-site disposal design reserve area % of total area)
Evaluator's Photographs attached Yes / No



SITE AND SOIL EVALUATION REPORT

D:	SUBSOIL INVESTIGATION							
	Soil Profile Determination							
	Method:	Falling Wate	T Lat					
		Test Pit						
		Other	Lores	Soil Texture	Fest \ Soil Class	sification Test		
Rep	ort:		ŋ 19E]					
Eştir	nated Soil Category	r:				7.00		
	Soil Category	Description		Tick O	ne			
	1.	Gravels and	Sand					
	2.	Loamy Sand						
	3.	Sandy Loams	S	in a serie of				
	4.	Loams						
	5.	Clay Loams		100				
	6.	Light Clays						
	7.	Medium to He	eavy Cl	lays 🛛		OK 3 K		
	Reasons for placin	g in Stated Soil (Categor	y:	On Site Test			
	Reasons for Design	Loading Rate (DLF	R) recon	nmendation:	Based on Test a DLR of 10 to AS	nd have assumed 1547:2000		
Зепе	ral Comments							
	Need for Groundw	ater Quality Prote	ection:		Yes / No			
	Type of Land Appl				site: Seconda	ary Treated		
	Effluent with Abs		1-0					
	Evaluator's prelimi							
	30m² of Absorption				-			
	Estimated Daily Flo	ow: Based on a 6	bed h	ome = 10 peopl	e x 180 litres po	er day = 1800 lit		
	Design Considerat		S					
Cons	ultation with other pa	rties:	¥					
	Neighbours			Local Environn	nent Groups			
	Environmer	nt Agencies		Not Applicable		1000		
	Report Atta	ched		Yes / No				



DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000 SIZING OF DISPOSAL AREA CALCULATIONS

1. ABSORPTION AREA OR TRENCH

Aw = Q/LTAR

Aw = wetted area in square meters

Q = daily flow in litres

DLR = Design Loading Rate in mm per day

Aw = (6 bedroom = 10 persons x 180 lit per person per day) / 10

Aw = 1800 / 10

Aw = 180m² of wetted area required

2. LEGTH OF TRENCH

L=AW/B

L = trench length in meters

Aw ≃ wetted area in square meters

B = trench width in meters

L = 180 / 0.6

L = 300 meters 3 x (6 x 20 meters) of 600mm wide x 600mm deep absorption trench.

3. CONCLUSION

Area is available on-site for this amount of absorption trench plus 100% replacement

With the use of Water Reduction Fixtures, 6/3 Toilets, Flow Restricted Showers and Aerated spouts on Basins, Baths and Sinks the Length of Absorption Trench would be reduced to 240 meters this is based on 10 people with the effluent being reduced from 180 litres per

THIS METHOD OF TREATMENT IS AVAILABLE / VIABLE



DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000 SIZING OF DISPOSAL AREA CALCULATIONS

1. EVAPOTRANSPIRATION - ABSORPTION AREA

 $Ae = Nq / Ec - (1-C) \times R + N \times (DLR)$

Ae = area in square meters

N = number of days in month

Q = daily flow in litres

Ec = average monthly pan evaporation in millimetres

C = rainfall run off co-efficient

R = average monthly rainfall in millimetres

DLR = Design Loading Rate

Ae = $30 \times 1800 \text{ lit} / 187 - ((1-0.2) \times 168) + (30 \times 6)$

Ae = 540000 / 187 - 135.2 + 180

Ae = 54000 / 232

Ae = 93m² of area required

2. LENGTH OF TRENCH

4 - Ae / Be

L = trench length in meters Ae = area in square meters

L = 232/3

L = 77 meters of 3 meter wide x 600 deep Evapotranspiration Bed

3. CONCLUSION

Area is available on-site for this amount of Evapotranspiration – Absorption Area plus 100% replacement.

With the use of Water Reduction Fixtures, 6/3 Toilets, Flow Restricted Showers and Aerated spouts on Basins, Baths and Sinks the Length of Absorption area would be reduced to meters this is based on 10 people with the effluent being reduced from 180 litres per person to 145 litres per person per day.

THIS METHOD OF TREATMENT IS AVAILABLE / VIABLE



DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000 SIZING OF DISPOSAL AREA CALCULATIONS

1. IRRIGATION AREA

Ai = Qw / DIR

Ai = Irrigation Area required

Qw = quantity of effluent generated per week in litres

DIR = Design Imigation Rate in millimetres per week

 $Ai = 7 \times 1800 / 25$

Ai = 12600/25

Ái = 500 m² of landscaped irrigation area.

2. CONCLUSION

Area is available on-site for this amount of irrigation plus 100% replacement.

With the use of Full Water Reduction Fixtures include the combined use of reduced flush 6/3 litre water closets, shower-flow restrictors, aerator faucets, front-load washing machines and flow/pressure control valves on all water-use outlets the Irrigation Area would be reduced to 400m² this is based on 10 people with the effluent being reduced from 180 litres per person to 145

THIS METHOD OF TREATMENT IS AVAILABLE / VIABLE



DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000 SIZING OF DISPOSAL AREA CALCULATIONS

1. ABSORPTION AREA OR TRENCH

Aw = Q/DLR

Aw = wetted area in square meters

Q = daily flow in litres

DLR = Design Loading Rate in mm per day

Aw = (6 Bed Home x 10 People x 145 lit per person per day) / 20

Aw = 1450 / 20

Aw = 73mz of wetted area required

3. LEGTH OF TRENCH

L = Aw/B

L = trench length in meters

Aw = wetted area in square meters

B = trench width in meters

L = 73 / 0.6

L = 120 Meters of 600mm Wide x 500mm Deep Absorption Trench. or 2 x 20 Meters Long x 3 Meters Wide x 500 Deep Absorption Bed

3. CONCLUSION

Area is available on-site for this amount of Absorption Trench\Bed.

This Calculation is based on Table 4.2A1 on page 116 of AS 1547.2002, using Secondary Treated Effluent with a DLR of 20.

THIS IS USING A SECONDARY TREATMENT PROCESS.



NOTICE TO LAND OWNER

Your sanitary drainage installation consists of a septic tank and land application system. To ensure the operational effectiveness of this installation the following advise should be adhered to.

OPERATION AND MAINTENANCE: GENERALLY

On-site sewerage treatment plants and the associated land application facilities are complex systems that are prone to failure if operated and maintained incorrectly. All on-site sewerage facilities require a high degree of user dedication in terms of operation and maintenance to ensure that the design performance of the facility is achieved for the expected life of the facility.

All on-site sewerage facilities or components of the facility have a finite life. For instance, septic tanks may have an expected life of 25 years, whilst the associated land application facility may have an expected life of 5 to 15 years depending on the nature of the specific site.

OPERATION & MAINTENANCE PROCEDURES

Operation and maintenance procedures are undertaken to a regular schedule appropriate to the nature and type of treatment and land application facility and in accordance with any manufacturers

Continuity of operation and maintenance is achieved throughout changes of ownership and/or changes in use or development of the site.

OPERATION

- Practice water conservation, and avoid exceeding the hydraulic capacity of the facility.
- Minimise the input of cleaning agents, detergents, disinfectants, bleaches, alkalis, oil, petrol, acids, degreasers, photography chemicals, cosmetics, lotions, pesticides and herbicides into the
- Not place materials such as disposal nappies, female napkins, paper towels, cigarette butts, bones and coffee grounds into the facility.
- Be observant regarding signs of unsatisfactory performance, including unusual odours, leaks from the facility or choking.
- Contact the service agent following observation of unsatisfactory performance or breakdown.
- Protect facility components from structural damage, such as from vehicles.
- Be familiar with safety procedures.
- Establish a time pattern of desludging.
- Keep the area in the vicinity of the on-site sewerage facility tidy to facilitate ease of operation
- Where appropriate, or required by a condition of approval, enter into an annual service contract
- Retain copies of all service reports.

SEPTIC TANKS

It is recommended that septic tanks be inspected at two yearly intervals. The inspection should include an assessment of the sludge and scum levels and checking of the outlet and inlet square junctions for blockages. Septic Tanks should be desludged when:

- The scum layer is within 100mm of the bottom of the inlet square junction or the sludge layer is within 200mm from the bottom of the inlet.
- The sludge occupies the basic allowance of the septic tank; or
- The sludge scum occupy two-thirds the volume of the tank (or first stage of a two stage system).

The desludging procedure should ensure that 400-500mm of liquid is retained in the tank, and that the tank is immediately refilled with water to the outlet level.

LAND APPLICATION SYSTEMS

Regular visual checking of correct system operation by households, and an annual inspection by service contractors should be undertaken. Signs of system failure include:

- Surface ponding and run-off of treated effluent:
- Degrading of soil structure (Sheet or Rill erosion, surface crusts, hard surface);
- Poor vegetation growth; and
- Unusual odours.

SUITABLE VEGETATION FOR WET SOILS

(Informative)

TYPES OF VEGETATION

(a) CLIMBERS

Bougainvillea

Hardenbergia

Hibbertia Scandens

Kennedia

Lonicera Japonica

Pandorea Jasminoides

(b) GRASSES

Buffalo

Kikuyu

(c) GROUND COVER

Acanthus Mollis Coprosma X Kirki

Grevillea Poorinda

sough that

(d) PERENNIALS

Agapanthus Preaecox Astor Novi-Belgii

Canna X Generalis

Chrysanthemum Maximum

Gazania X Hybrida Salvia X Superba Stokesia Laevis

Viola Hederacea

Liriope Muscari

Ophiopogon

Royal Mantle

(e) SHRUBS

Abelia X Grandiflora Acacia Longifolia

Callistemon Citrinus Cassia Bicapsularis

Ceratostigma

Chaenomeles Lagenaria

Correa Alba

Cotoneaster Glaucophyllus

Cotoneaster Lacteus Cotoneaster Pannosus

Caphea Ignea

Euonymus Japonicus

Euphorbia Millii

Euphorbia Pulcherrima

Hebe Speciosa Jasminum Mesnyi

Jasminum Officinale

Jasminum Polyanthum

Lantana Camara

Lantana Montevidensis

Leptospermum Flavescens Narium Oleander

Nanum Oleander

Plumbago Auriculate

Pyracantha Fortuneana Thunbergia Alata

Westringia Fruticosa

(f) TREES

Angophora Costata

Banksia Integrifolia

Callistemon Salignus Callistemon Viminalis

Casuarina Glauca

Casuarina Stricta

Eucalyptus Botryoides

Eucalyptus Robusta

Hakea Salicifolia

Hakea Saligna

Leptospermum Laevigatum Leptospermum Petersonii

Melaleuca Armillaris – Sandy Soil Melaleuca Linariifolia – Clay Soil

Melaleuca Linanifolia – Ciay Soli Melaleuca Quinquenervia – Sandy

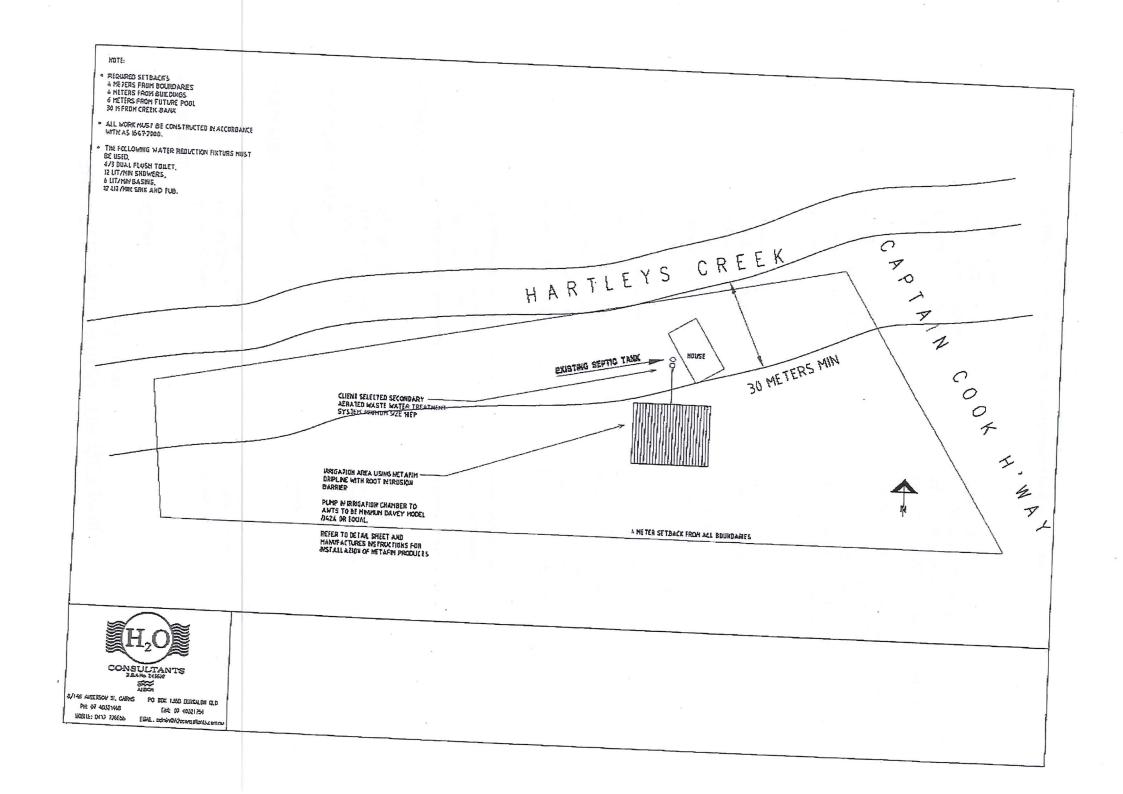
Soil

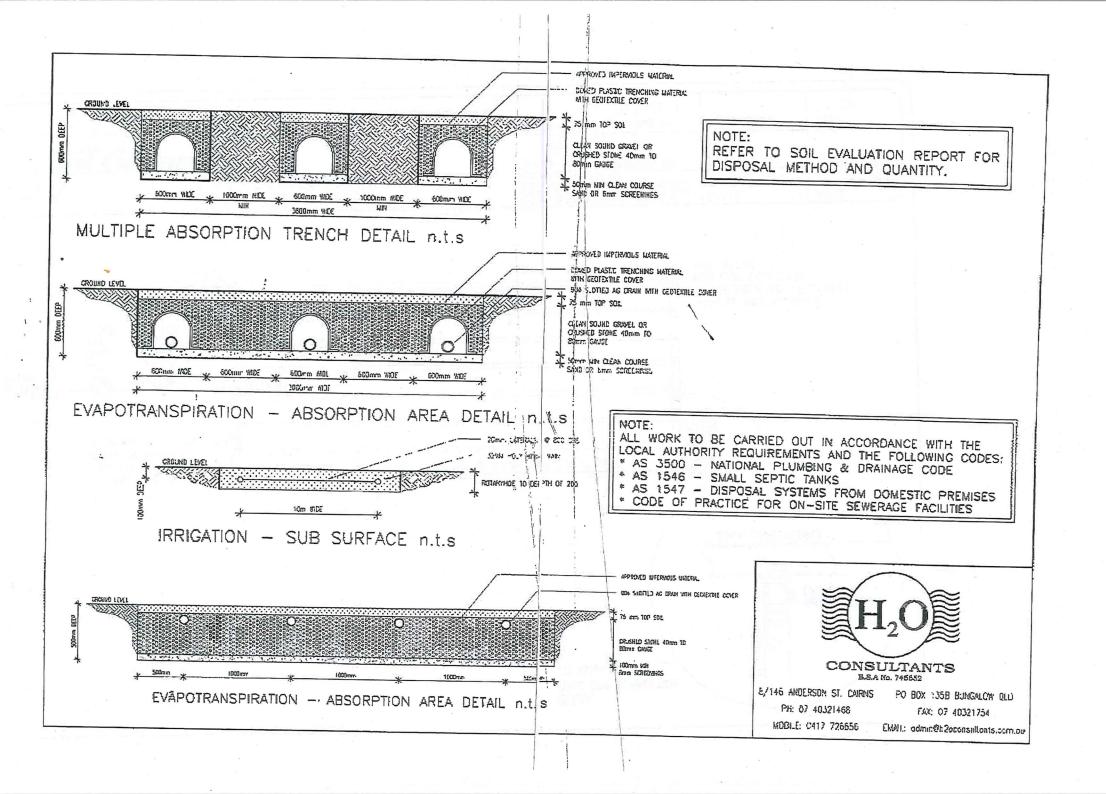
Melaleuca Styphelioides - Clay Soil

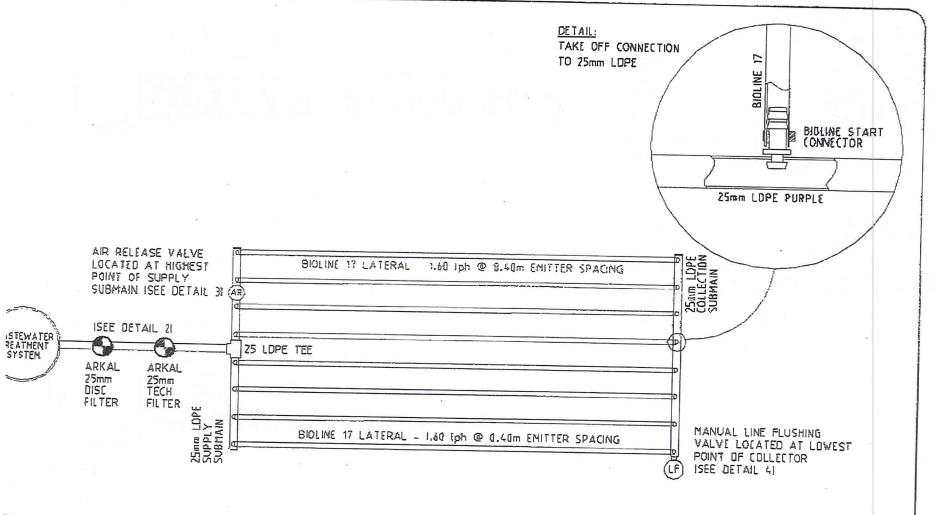
Nyssa Sylvatica

Photinea X Frasieri 'Robusta'

Tristaniopsis Laurina

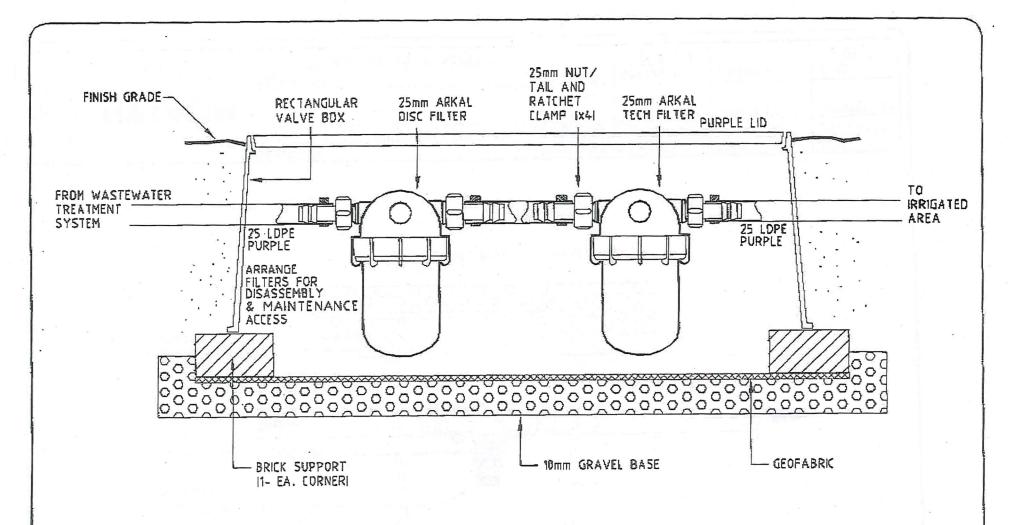






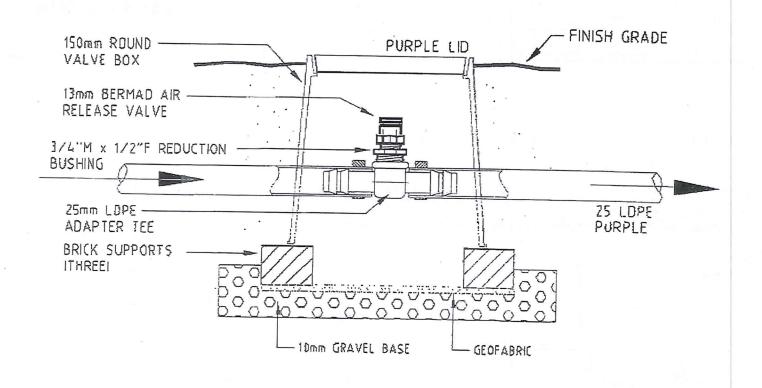
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NETAFIM Australia Pty. Ltd.
TECH - SERVICES
1.CM 555 429 785

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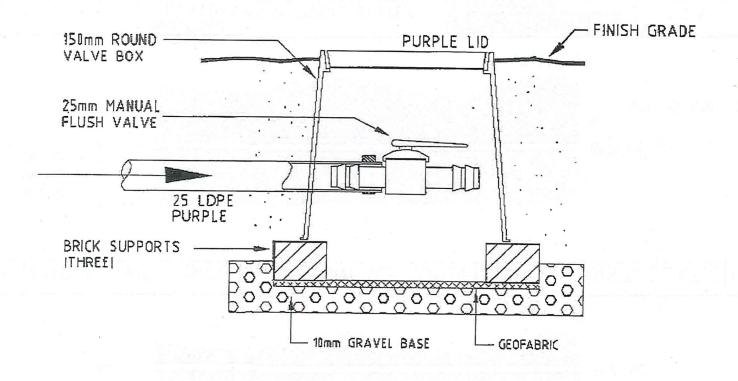


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PROJECT NAME: WASTEWATER DISPOSAL SYSTEM	COPYRIGHT (1) THE DRAWING 6 THE PROPERTY OF METAHN AUSTRALIA PTY, ATD, AND NAY NOT BE COPED OR USED WITHOUT THE EMPLISHED WRITTED PROMISSION OF HITTAPH AUSTRALL MY, 110.		SCALE: N.T.S.	DATE: 28/05/03
CLIENT:	DRAWN BY: HBH	DESIGNED BY:	CHECKED BY:	APPROVED BY
DRAWING TITLE: MANUAL FLUSH VALVE ASSEMBLY	JOB NUMBER:	DETAIL 4	REVISION No:	SHEET : 4 OF 7

