YOUR REF:

OUR REF: 2016/2116 (768627)

2 March 2016

S J Lundgren PO Box 2184 WARWICK WA 6024

Attention:

Dear Sir/Madam

DECISION NOTICE UNDER S 335 SUSTAINABLE PLANNING ACT 2009: DEVELOPMENT APPLICATION FOR A HOUSE AT LOT 7 BANABILLA ROAD DEGARRA

With reference to the abovementioned Development Application, which was determined under Instrument of Delegation on 2 March 2016, please find attached the relevant Decision Notice.

The Notice includes extracts from the Act with respect to making representations about conditions, negotiated decisions, suspension of the appeal period, and lodging an Appeal.

Should you have any enquiries in relation to this Decision Notice, please contact Simon Clarke of Development Assessment and Coordination on telephone number 07 4099 9480.

Yours faithfully

Paul Hoye | General Manager Operations
Sustainable Communities | Douglas Shire Council

Att

APPLICANT DETAILS

S J Lundgren PO Box 2184 WARWICK WA 6024

ADDRESS

Lot 7 Banabilla Road, Degarra

REAL PROPERTY DESCRIPTION

Lot 7 on SP123877

PROPOSAL

House

DECISION

Approved subject to conditions (refer to approval package below).

DECISION DATE

2 March 2016

TYPE

Material Change of Use (Development Permit)

REFERRAL AGENCIES

None Applicable

SUBMISSIONS

There were no submissions for this application.

FURTHER DEVELOPMENT PERMITS REQUIRED

Development Permit for Building Works

CODES TO COMPLY WITH FOR SELF-ASSESSABLE DEVELOPMENT

None

DOES THE ASSESSMENT MANAGER CONSIDER THE APPLICATION TO BE IN CONFLICT WITH APPLICABLE CODES, PLANNING SCHEME, STATE PLANNING POLICIES OR PRIORITY INFRASTRUCTURE PLAN (IF YES, INCLUDE STATEMENT OF REASONS)

Not in conflict

APPROVED DRAWING(S) AND / OR DOCUMENT(S)

The term 'approved drawing(s) and / or document(s)' or other similar expressions means:

Drawing or Document	Reference	Date
2 Bedroom Dwelling	29-531 Sheet 2 prepared by	October 2009
(Springmount)	Queensland Kit Homes	
Site Plan	SI259-15 Report Page 10 within the report submitted by Earth Test dated August 2015 (Council Reference #768129)	August 2015
Clearing Plan	Lot Banabilla Road	2 March 2016

ASSESSMENT MANAGER CONDITIONS

- 1. Carry out the approved development generally in accordance with the approved drawing(s) and/or document(s), and in accordance with:
 - a. The specifications, facts and circumstances as set out in the application submitted to Council, including recommendations and findings confirmed within technical reports; and
 - b. The following conditions of approval and the requirements of Council's Planning Scheme and the FNQROC Development Manual.

Except where modified by these conditions of approval.

Timing of Effect

2. The conditions of the Development Permit must be satisfied prior to Commencement of Use, except where specified otherwise in these conditions of approval.

Lawful Point of Discharge

 The flow of all external stormwater from the property must be directed to a lawful point of discharge such that it does not adversely affect surrounding properties or properties downstream from the development.

Water Supply

4. Water storage tank(s) with a minimum capacity not less than 30,000 litres must be installed prior to occupation of the premises. Details of the water tank(s) must be shown

on plans submitted with the Building Application. Such water tank(s) must be provided with:

- a. Mosquito-proof screens of brass, copper, aluminium or stainless steel gauze not coarser than one (1) mm aperture mesh of substantial construction and installed in such manner as not to cause or accelerate corrosion; or
- b. Flap valve at every opening of the tank or other receptacle; or
- c. Other approved means for preventing the ingress or egress of mosquitoes; and
- d. Where a tank or other receptacle is provided with a manhole, the manhole must have a diameter of no more than 40cm; and
- e. A 50mm ball valve with a camlock fitting.

On-site Effluent Disposal

 The method of on-site effluent disposal must be in accordance with the Plumbing and Drainage Act 2002. Details of the wastewater treatment system to be installed must be in accordance with report submitted by Earth Test dated August 2015 (Council Reference #768129).

Landscaping

6. All landscaping to be installed adjacent the boundaries of the site as detailed on the Landscape Plan submitted with the application must consist of native and endemic species only and planted in an irregular and random fashion to blend with existing vegetation in the locality.

A ten (10) metre wide landscape buffer must be provided along the Banabilla Road frontage.

Building Colours

7. The exterior finishes and colours of Buildings are non-reflective and blend with the natural colours of the surrounding environment. Roofs and structures (including water tanks) must be of moderately dark to darker shades of green, grey, blue and brown.

The above requirements must be made known in writing to all prospective purchasers if the land is on sold.

Sediment and Erosion Control

8. Soil and water management measures must be installed/implemented prior to discharge of water from the site, such that no external stormwater flow from the site adversely affects surrounding or downstream properties (in accordance with the requirements of the *Environmental Protection Act 1994*, and the FNQROC Development Manual).

External Works

- 9. Undertake the following external works:
 - a. Construct a rural allotment access in accordance with FNQROC Development Manual Standard Drawing S1105. A copy is attached at Appendix 2.

The crossover must not impact on stormwater flows in minor and major flow events.

ADVICE

1. This approval, granted under the provisions of the *Sustainable Planning Act 2009*, shall lapse four (4) years from the day the approval takes effect in accordance with the

provisions of Section 339 and Section 341 of the Sustainable Planning Act 2009.

- The applicant/owner is advised that this approval does not approve the construction of the building work. A Development Permit for Building Work must be obtained in order for construction to commence.
- All building site managers must take all action necessary to ensure building materials and / or machinery on construction sites are secured immediately following the first cyclone watch and that relevant emergency telephone contacts are provided to Council Officers, prior to commencement of works.
- 4. This approval does not negate the requirement for compliance with all other relevant Local Laws and other statutory requirements.
- 5. For information relating to the *Sustainable Planning Act 2009* log on to www.dsdip.qld.gov.au. To access FNQROC Manual, Local Laws and other applicable Policies log on to www.cairns.qld.gov.au.

DEFINITIONS

Land Use*

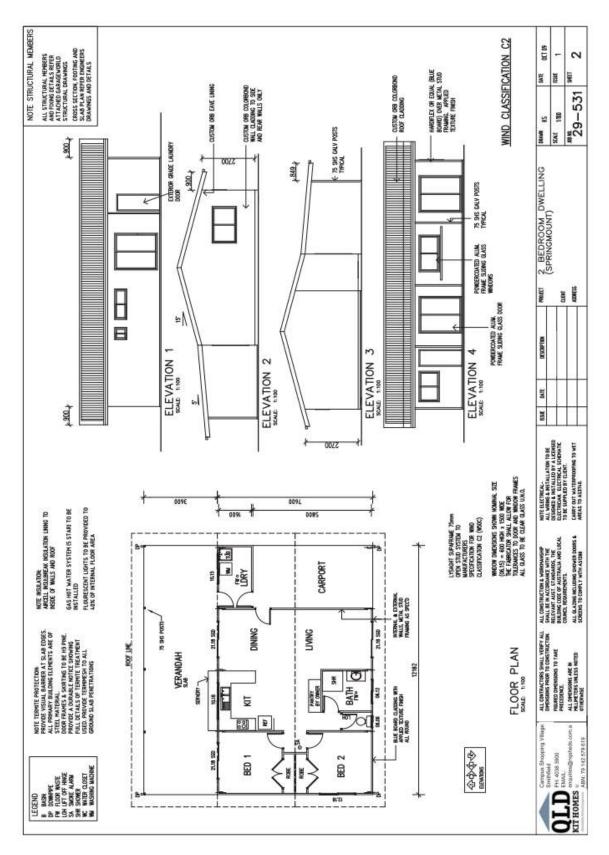
In accordance with the 2008 Douglas Shire Planning Scheme the approved land use of House is defined as:

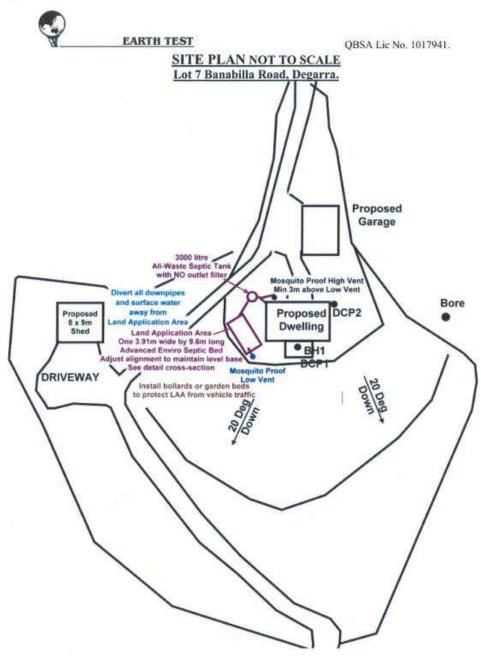
Means the use of premises comprising one (1) Dwelling Unit, located on one (1) lot for the exclusive residential use of one (1) Household. The use includes:

- outbuildings / structures incidental to and necessarily associated with the residential use;
- the care of children in accordance with the Child Care (Family Day Care) Regulation 1991;
- accommodation for a member or members of the extended family of the Household occupying the House and for personal staff; and
- a display house which displays to the general public the type of construction or design offered by a builder / developer, for a maximum period of 12 months and which then converts to a House for the exclusive use of one (1) Household.

^{*}This definition is provided for convenience only. This Development Permit is limited to the specifications, facts and circumstances as set out in the application submitted to Council and is subject to the abovementioned conditions of approval and the requirements of Council's Planning Scheme and the FNQROC Development Manual.

APPENDIX 1: APPROVED DRAWING(S) & DOCUMENT(S)

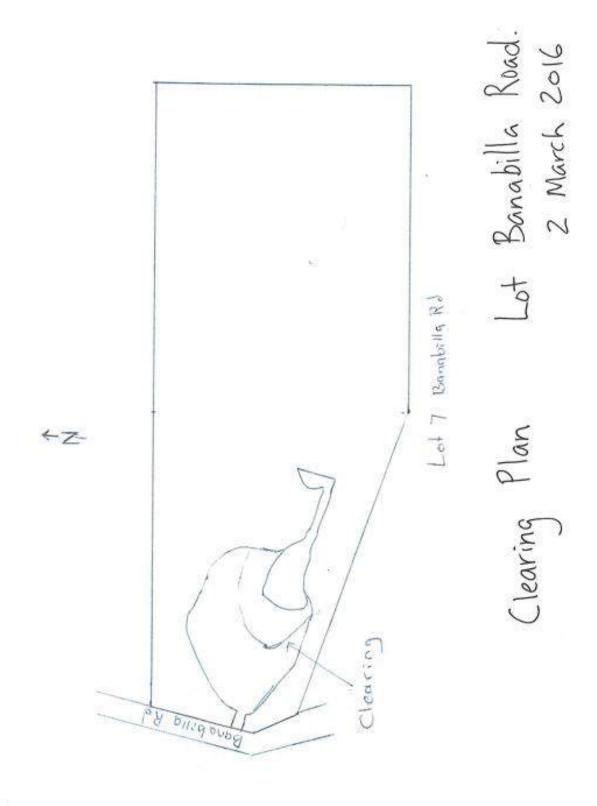




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EARTH TEST

Site Classification

And

Wastewater Management System

For

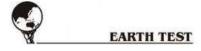
Sixten Lundgren

At

Lot 7 Banabilla Road

Degarra

Postal address: Earth Test, PO Box 1042, Tolga, Qld 4882. Phone: 4095 4734 e-mail: len@earthtest.com.au



QBSA Lic No. 1017941.

INTRODUCTION:

Earth Test has been engaged by Sixten Lundgren to assess, design and report on Site Classification and a Domestic Wastewater Management System at Lot 7 Banabilla Road, Degarra.

Real Property Description:

Lot 7, SP 123877

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 July 2015.

SITE FACTORS:

The site was identified by its site address, a photo is included to confirm the sites identity. The site is predominately covered with short regrowth in cleared area in the forest and has a level to 20 degree fall to the West North-West. The water supply to the site will be from a bore on-site.

No rock outcrops were noted at the site. An intermittent watercourse is shown on the site plan.

Two Dynamic Cone Penetrometer tests were performed at locations DCP1 and DCP2 and one borehole BH1 as shown on the site plan.

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



BH1 being drilled at Lot 7 Banabilla Road, Degarra

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SITE INVESTIGATION REPORT

BOREHOLE LOG

CLIENT: Sixten Lundgren.

PROJECT: Lot 7 Banabilla Road, Degarra.

REPORT DATE: 5/08/2015

BOREHOLE No: BH1

DEPTH (m)

DESCRIPTION

Orange-Brown Silty-Clay with Gravel

DATE SAMPLED: 20/07/2015

Sampled by: L. Quinn

COMMENTS

Disturbed sample 0.6- 0.9m.
Watertable not encountered



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ATTERBERG LIMITS TEST REPORT

CLIENT: Sixten Lundgren SAMPLE No: SI 259-15

PROJECT: Lot 7 Banabilla Road, Degarra DATE SAMPLED: 20/07/2015

SAMPLE DETAILS: BH1 0.6-0.9m Sampled by: L. Quinn

REPORT DATE: 5/08/2015 Tested By: P. Weigand

TEST METHOD	RESULT	
Liquid Limit: AS 1289.3.1.2-2009	40%	
Plastic Limit: AS 1289.3.2.1-2009	22%	
Plasticity Index: AS 1289.3.3.1-2009	18%	
Linear Shrinkage: AS 1289.3.4.1-2008	10.5%	
Length Of Mould:	125.1mm	
Cracking, Crumbling, Curling, Number Of Breaks:	One Break	
Sample History:	Air Dried	
Preparation Method:	Dry Sieved	
Insitu Moisture Content:	11.7%	



QBSA Lic No. 1017941.

<u>DYNAMIC CONE PENETROMETER REPORT</u> <u>AS 1289.6.3.2</u>

CLIENT: Sixten Lundgren SAMPLE No: SI 259-15

PROJECT: Lot 7 Banabilla Road, Degarra. DATE SAMPLED: 20/07/2015

SAMPLE DETAILS: Sites "DCP1 & DCP2" as per Tested By: L. Quinn & P. Weigand

site plan.

REPORT DATE: 5/08/2015

DEPTH	Site: DCP1	Site: DCP2
(Metres)	No Blows	No Blows
0.0 - 0.1	5	6
0.1 - 0.2	6	6
0.2 - 0.3	9	8
0.3 - 0.4	10	9
0.4 - 0.5	12	11
0.5 - 0.6	12	13
0.6 - 0.7	30	20
0.7 - 0.8	REFUSAL	30
0.7 = 0.8		REFUSAL
0.9 - 1.0		
1.0 – 1.1		
1.1 – 1.2		
1.2 – 1.3		
1.3 – 1.4		5
1.4 – 1.5		
1.5 – 1.6		
1.6 – 1.7		
1.7 – 1.8		
1.8 – 1.9		
1.9 - 2.0		19



QBSA Lic No. 1017941.

SITE CLASSIFICATION

Lot 7 Banabilla Road, Degarra.

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

The Atterberg Limits test results indicate a slightly reactive soil.

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

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

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

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

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

Leonard Quinn. Earth Test.

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SITE AND SOIL EVALUATION

Lot 7 Banabilla Road, Degarra.

The site and soil evaluation carried out on 20/07/2015 provided the following results.

Site Assessment

Site FactorResultSlope0 to 20 DegreesShapeWaxing DivergentAspectWest-North-WestExposureGood

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

Vegetation Short regrowth in cleared area in forest

Watercourse/Bores As shown on site plan.

Water table Not encountered during investigation.

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

Other site specific factors Nil

Soil Assessment

Soil Property Result Colour Orange-Brown Texture Clay-Loam Structure Moderate 10% Coarse Fragments Measured Permeability Ksat (m/d) Not measured Dispersion Slakes Soil Category Resultant Design Load Rate, DLR (mm/day) 20



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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 2002.
- Queensland STANDARD PLUMBING AND DRAINAGE REGULATION 2003.
- Queensland PLUMBING AND WASTEWATER CODE.

SYSTEM SIZING FACTORS.

A population equivalent of five (5) persons has been chosen for the proposed three bedroom dwelling.

The site will be 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 (5 persons @ 150 L/person/day) will be 750 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.



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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 = 750/(20*3.91)

= 9.6 m.

Use one 3.91m wide by 9.6m long Advanced Enviro-Septic bed.

See site plan and detail cross-section.

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.

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SYSTEM INSTALLATION

The plumber must notify Earth Test of the proposed date of installation so that an inspection can be made to satisfy the local council requirement of a Form 8.

A further charge will be made to carry out the inspection and complete the From 8.

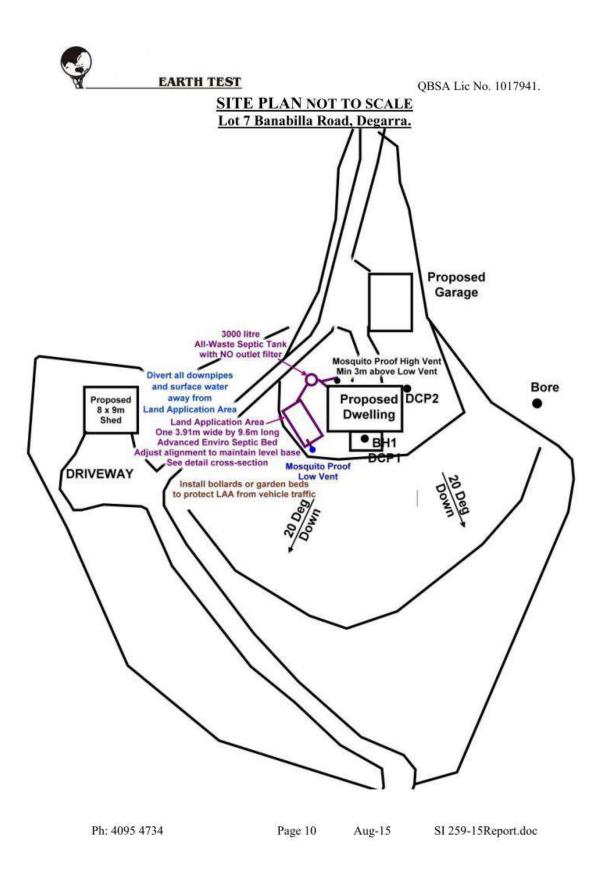
Avoid compaction by keeping people and machinery off the finished trench or bed floor. The system shall be installed by a licensed plumber in accordance with the manufacturer's recommendations and the relevant Australian Standards.

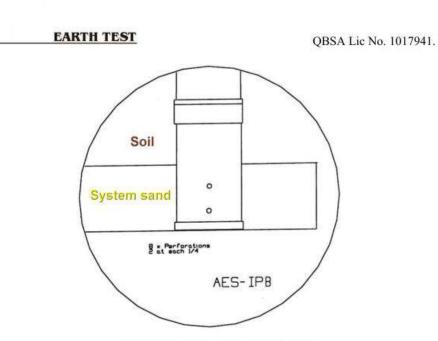
Operation and Maintenance

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

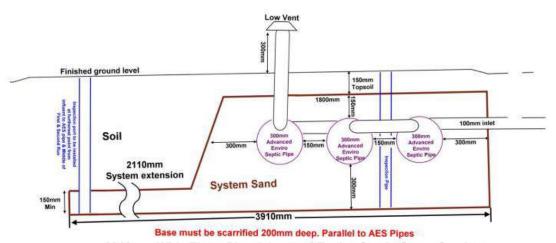
Leonard Quinn Earth Test

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AES Inspection point detail



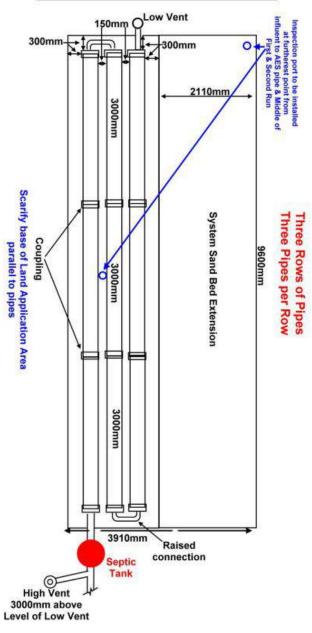
3910mm Wide Three Pipe Advanced Enviro-Septic Cross-Section

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QBSA Lic No. 1017941.

Overhead view of Land Application Area



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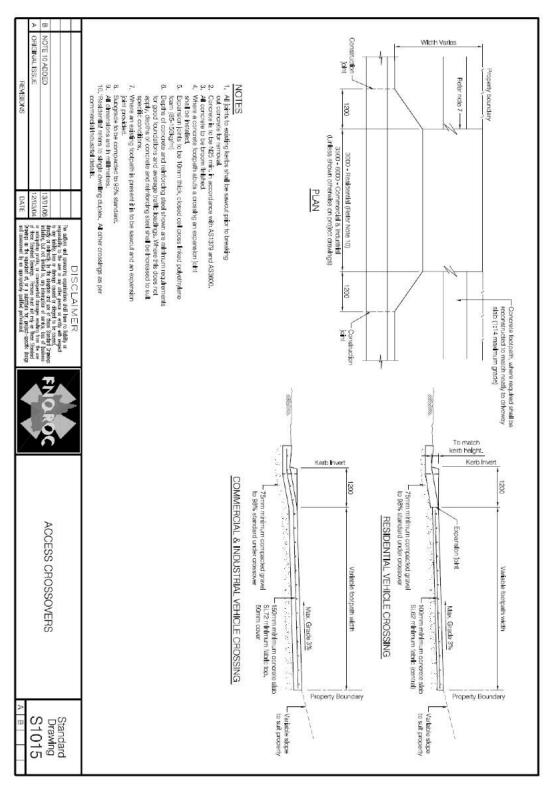
EARTH TEST

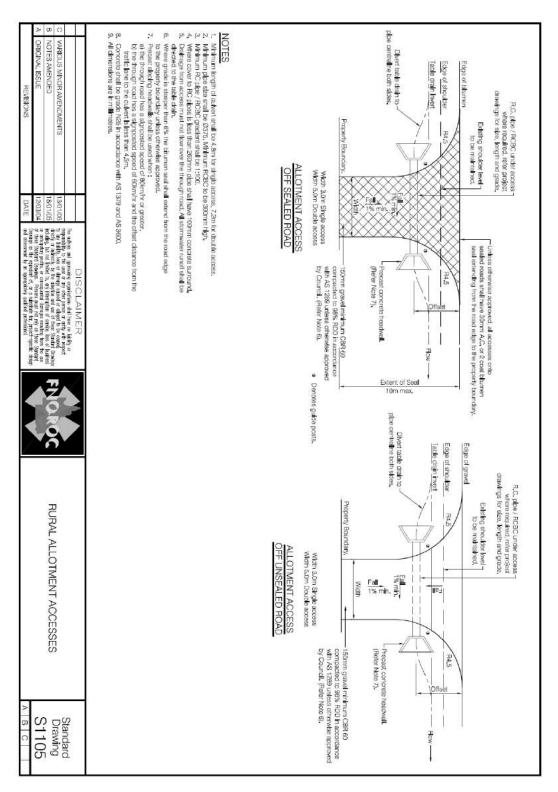
QBSA Lic No. 1017941.

Minuys I	he First Option"						
Site	"Always the BEST Option" u	ntil site and	soil co	onditions rul	le it out.		
Address Lot 7 B	anabilla Road Degarra						
lent Name Sixten L	undgren						
esigned By Earth Te	st	Designers Ph Number		40954	734	QBSA Lic Numbe	1017941
ic Plumber Name		Plumber Ph Number				Plumb / Drainer L Number	ic
ouncil Area Cook Sh	ire Council	AES Certif Numi	ber			Date	
This Calculator	is a guide only, receiving soil classification, surface water, water tables ar	d all other site	constrain	its addressed by	y the design.	No. Comp.	
	System Designers site and soil calculation data entry				IMPORTAN	T NOTES	
	Is this a new home installation Y or N	Y	>>	Minimun single	vent size is 80mm	m or 2 x 50mm hous	e vents
	Number of person	5		a septic tank o	utlet filter is NOT	RECOMMENDED	
	Daily Design Flow Allowance Litre/Person/Day	150					
	Number of rows required to suit site constrants	3	>>	Longer AES run	s are better than	multiplule short runs	
to the same of the same	F-15	4	-		anima destas casas		
-muration surface	Soil Category as established by site and soil evaluation, CATEGORY Design Loading Rate based on site & soil evaluation DLR (mm/day)	20				iderations. Ref AS15 y, Ref AS1547 & Co	
	Design Loading Kate based on site & sos evaluation DLK (mm/day) Bore log depth below system Basel area	1400					mments. ter table or restrictive lay
Enter Custom food	pore tog deput below system baset area togrint Slope in % for standard AES systems to calculate extension	0	>> M	in depth below	nases area is ovu	mm to establish war	ter table or restrictive lay
Criter System roo	is this design a gravity system with no outlet filter? Y or N	Y		A House Vent I	E I OW VENT room	ired on this system	
DIFASE	CHECK YOU HAVE FALL FROM TANK TO AES SYSTEM PIPES	- 1		A HOUSE VEHICE	a con veni requ	ized on this system	
	utcome must be important to everyone."						
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APPENDIX 2: STANDARD DRAWING - ACCESS CROSSOVER





RIGHTS OF APPEAL Attached