ON SITE WASTE WATER DISPOSAL

SITE INVESTIGATION, ASSESSMENT AND EVALUATION CHECKLIST.

Please refer to AS/NZS 1547:2012 to help with your design. Evaluators should make themselves aware of all the potential restrictions under this Standard in order to show compliance with the NZBC clause G13/VM4 and Hawke's Bay Regional Council Rules.

Address

Registration No.

1.0 Site Evaluator

Company

Name:

1.1

	Phone:	First point of contact:
	Cell:	
	Fax:	
	E-mail	
2.0	Site Information	
2.1	Location Address:	
	Owner:	Owners Address:
	Phone:	Fax:
	Mobile:	E-mail
2.2	Legal Description Lot N Valuation No:(ha)	o:BLK:
2.3	Gentle slope $Yes \square$ Moderate to steep $Yes \square$	accurately described in design and No □ No □ No □ No □ No □ No □
2.4	Are photographs of site attached?	Yes□ No□
2.5	Illustration of soil structure attached?	Yes□ No□
I		

3.0 Hydraulic Loading Information

3.1	Number of bedrooms	Number of persons	Design flow allowance per person (Refer: NZS 1547)		
3.2	Waste Disposal Unit Installed	Yes□ No[
3.3	Water saving devices installed Yes□ No□				
3.4	Potable water supply□ Rain water□ Bore water□ Reticulated□ (Tick supply used)				
3.5	Distances from system to bord Shown on Site Plan Yes	e or well in metres: No			
4.0	Site Assessment				
4.1	Has the reserve field been identified on the site plans $Yes \square No \square$ If no, please explain. Does the topography of the site suit the system design $Yes \square No \square$				
4.3	Are there any drainage flow p	<u> </u>			
4.4	Has surface water run- off be				
4.5	Are there cut off drains I Collector drains required $Yes \square N_0 \square$				
4.6	Is the winter high water table known Yes No Height of water table: (if known) How close will this be to bed floor approx.? mm.				
4.7	Are there site constraints with proposed field Yes□ No□		urse distances from the		
5.0	Sub-Soil Investigation.				
5.1	How was the soil profile deter	mined?			
	Bore holes Dug Test Holes E specify):		Soil pit Other (please		
5.2	Have the soil tests been asse	ssed by a third party \overline{Y}	Yes□ No□		
5.3	Has the soil structure profile be Have photographs been supp	<u> </u>	No□		
		900 GRO	DUND		
5.4	Has a percolation test been call If YES please specify the method:				

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5.5	Are the percolation test results attached Yes□ No□
5.6	Do the tests match the DLR expectations from the tables and soil categorization Yes \square No \square
5.7	Tick the appropriate soil type:
	1. Gravel, coarse sand, rapid draining Yes□ No□
	2. Coarse to medium sandy loams, free draining Yes□ No□
	3. Medium-fine-loams, moderately good drainage Yes□ No□
	4. Clay loam, loam and silt loam, imperfect drainage Yes□ No□
	5. Light clays slow drainage Yes□ No□
	6. Medium to heavy clays very poor draining Yes□ No□
6.1	Site Evaluation
6.1	Are there any environmental constraints Yes \square No \square
	If YES please specify
	And there any Havrice Day Davienal Council or Control Havrice Day
62	Are there any Hawkes Bay Regional Council or Central Hawkes Bay District Council Constraints (please check this prior to building consent application as this could materially
	affect the work on site) Yes \square No \square
	HBRC discharge permit number:
63	Type of sewer treatment system best suited to this ground type including the minimum septic tank size, make and model
	tank size, make and model
6.4	Type of disposal system considered best use for this site
6.5	Minimum disposal area recommended (for trenches and beds see 6.8 below and table 4.2A1
	NZS1547
	Area= square meters
6.6	Minimum size of reserve area (see HBRC and CHBDC requirements)
	Area: M²
6.7	Minimum septic tank size required from AS/NZS 1547
6,8	Trench and bed calculations from NZS 1547 2000

Calculations (Trenches and beds only example)

Length of drain = Q+ (SUM of DLR x W)

Example:

Q= Litres per day used = number of bedrooms x 2 peo ple per bedroom x litres used per person per day.

(Therefore 3 bedrooms = 6 people)

6 people x 1801itres p.p per day =10801itres used

(180 litres is an example, consult NZS 1547 for minimum allowances to be used, or local and regional councils for minimum and maximum daily discharges)

Length of drain (Q) = 1080

Assume type 2 massive soil: 15x (trench width proposed) 0.6m

Therefore Q (Length of drain) = 1080+9 = 120 lm *OF DRAIN* @0.6M WIDE This equals 72m^2 of drainage.

7.0 General Comments

7.1	AS/NZS 1547:2012 "On site domestic waste water management" can be used for guidance in
	the on site assessment and soil evaluation. This standard can provide options for 'on site'
	waste water treatment and land application systems. The 2000 version is still the version
	automatically acceptable to G13NM4.

- 7.2 AS/NZS 1546: 1998 "Septic tanks" has been adopted by the Central Hawkes Bay District Council. Unless a manufacturer has built their tanks to comply with this standard, and has had an engineer verify that the tanks comply with the same, then those tanks are unlikely to be permitted for used in Central Hawkes Bay as an alternative solution to G13NM4.
- 7.3 Where it is necessary to make contact with the Hawkes Bay Regional Council in relation to an on sight waste water disposal design 06 835 9200 www.hbrc.govt.nz
- 7.4 Please be aware that although 'holding tanks' may be permitted under the building code and regional council rules, the discharge from them will not be accepted into the Central Hawkes Bay oxidation ponds from septic tanks cleaners. Please take this into consideration when designing your system.

Applicants	Name		
Signature			
Date			

Important notes

- 1. Further attached are the tables required for ETA *I* ETS, mound and irrigation systems and field size calculations.
- 2. Please show reserve areas required including sizes as required by AS/NZS:1547
- 3. If the reserve area is to be less than 100% this must be justified by your design.
- 4. All site plans must show datum heights and overland flow path directions for any surface or shallow sub surface irrigation and drip-line systems.
- 5. All systems must show cross sectional drawings of how the system will be installed, whether they are standard trenches or AWTP systems.
- 6. All systems that require signage, fencing and planting in any form must be indicated on the drawings. Who does this work is between the applicant and designer, however, a code compliance certificate may not be issued unless all components are completed.
- 7. Anything other than full compliance with AS/NZS 1547 must be applied for as an alternative solution to the New Zealand building code clause G13NM4.
- 8. If the total domestic waste water flow design allowances are to be reduced from the standard quantities, then itemization of the water reduction fixtures within the dwelling will be required to be shown as part of the application, not just generic reference.
- 9. Please use AS/NZS 1547 in conjunction with this form to supply an accurate design. The tables supplied are a guide only. Other site constraints may indicate alternative systems are required, or that a specialist waste water engineer be employed.
- 10. Please use the blank calculations sheet attached to show calculations for systems other than trenches and beds.
- 11. It is not acceptable to leave questions on this form blank. If the information is not known then justification for why not must be supplied. eq: Winter high water table
- 12. Hawkes Bay Regional Council also has rules regarding the disposal of on-site wastewater. It is highly recommended that you check these guidelines as well. You cannot proceed with work even under a building consent if it would contravene other legislation!!

Calculation sheet for ETA/ETS, mounds, sub-surface and surface irrigation systems

Type of system best suited:
Type of soil (category):
Dir or dir from tables (mm/d):
Number of bedrooms:
Occupants: (minimum of 2 per bedroom):
Total litres per day:
Size of field required m ² :
Size of reserve area required (see AS/NZS:1547):
Water saving devices (see notes in tables):

Cross sectional construction details of field & site plan (including all slopes and overland flow paths with locations of water tank overflows, construction details of cut off drains and any other elements that may affect the system. Also show any signage, planting, marking, & all setbacks for both EAA and Reserve field).