Schedule 5: On-site Wastewater Disposal Site and Soil Evaluation Checklist

To be completed by a person accredited in site and soil assessment for on-site wastewater management system design.

PART A: Contact Details

A1. Applicant Details:

Applicant Name	
Company Name	

	First Name(s)	Surname
Property Owner Name(s)		
Nature of Applicant*		

*(*i.e. Owner, Lessee, Prospective Purchaser, Developer)*

A2. Consultant/Site Evaluation Details:

Consultant/Agent Name				
Site Evaluator Name				
Postal Address				
Phone Number	Business		Private	
	Mobile		Fax	
Name of Contact Person				
E-mail Address				

A3. Are there any previous existing discharge consents relating to this proposal or other waste discharged on the site?

Yes		No		(Please tick)

If yes, give Reference Number(s) on Description

A4. List any other district and regional council consents in relation to this proposal site and indicate whether or not they have been applied for or granted. Specify Application Details and Consent No.): *(e.g. Land Use, Water Take, Subdivision, Earthworks and Stormwater Consents)*

PART B: Property and Site Details

B1. Property for which this application or permitted activity authorisation relates:

Physical address of property			
Territorial Local Authority			
Regional Council			
Legal Status of Activity	Permitted:	Controlled:	Discretionary:
Relevant Regional Rule(s) [Note 1]			
Map Grid Reference of Property [Note 2]			
Attach a **Location Plan** with scale and orientation, with adequate features to locate the property.			
Attach a **Site Plan** with scale and orientation of all the components of the on-site effluent treatment system, in particular any septic or AWTS tank(s), tank access points, outlet filters and access, land application area and reserve areas and associated pipe lines between components. This is the same Site Plan required in H7.			
Note 1: On-Site Effluent Treatment Regional Plan (OSET Plan) Note 2: Use NZMS 260 series, scale 1:50,000			

B2. Legal description of land (as shown on Certificate of Title):

Lot No.		DP No.		Ct No.	
Other (specify)					

Please ensure copy of Certificate of Title is attached.

PART C: Site Assessment

C1. Has a Surface Evaluation been undertaken for this property?

Yes		No		(Please tick one)

If yes, please specify the findings of the Surface Evaluation, and if not please specify why this was not considered necessary.

C2. Has a Slope Stability assessment been carried out on the property?

Yes		No		(Please tick one)

If No, why not?

If Yes, please give details of report (and if possible, please attach report):

Author:	
Company/Agency	
Date of Report	
Brief Description of Report Findings	

C3. Site Characteristics – *Provide descriptive details below:*

Performance of Adjacent Systems:
Estimated Rainfall and Seasonal Variation: (Refer to OSET Plan Map 3)
Vegetation Cover:
Slope Shape:
Slope Angle:
Surface Water Drainage Characteristics:
Flooding Potential: YES/NO
If yes, specify relevant flood levels on appended site plan, i.e. one in 5 year and/or 20 year and/or 100 year return period flood level, relative to disposal area.
Surface Water Separation:
Site Clearances (Provide general description here and specific dimensions in Part 6 below and in Site Plan):
Site Characteristics:

C4. Describe the Site Geology of the subject property:

Geological Map Reference Number	

C5. What Aspect(s) does the proposed disposal system face (please tick)?

North		West	
North-West		South-West	
North-East		South-East	
East		South	

C6. Site clearances *(These must also be shown on the site plan)*

Separation Distance from	Treatment Separation Distance (m)	Disposal Field Separation Distance (m)
Boundaries		
Surface water		
Groundwater		
Stands of Trees/Shrubs		
Wells, water bores		
Embankments/retaining walls		
Buildings		
Other (specify):		

PART D: Site Assessment – Subsoil Investigation

D1. Identify the soil profile determination method:

Test Pit		(Depth_____m)		No. of Test Pits	
Bore Hole		(Depth_____m)		No. of Bore Holes	
Other (specify)					
Soil Report Attached?	Yes		No		*(Please tick)*

D2. Was fill material intercepted during the subsoil investigation?

Yes		No		*(Please tick)*

If yes, please specify the effect of the fill on wastewater disposal.

D3. Has percolation testing been carried out?

Yes		No		*(Please tick)*

If yes, please specify the method

Test Report Attached? (Please tick)		Yes		No	

D4. Are surface water interception/diversion drains required?

Yes		No		*(Please tick)*

If yes, please show on site plan

D5. State the depth of the seasonal water table:

Winter	(m)				
Summer	(m)				
Please indicate whether measured			or estimated		*(Please tick)*

D6. Are there any potential short circuit paths?

Yes		*No*		*(Please tick)*

If the answer is yes, please explain how these have been addressed

D7. Based on results of subsoil investigation above please indicate the disposal field soil category:

Is Topsoil Present?	If so, Topsoil Depth?	(m)

NZS 1547:2012 - Table E1

Soil Category	Classification	Properties
1	Sand	Very little to no coherence; cannot be moulded; single grains stick to fingers
2	Loamy sand	Slight coherence; forms a fragile cast that just bears handling; gives a very short (5mm) ribbon that breaks easily; discolours the fingers
	Sandy loam	Forms a cast but will not roll into a coherent ball; individual sand grains can be seen and felt; gives a ribbon 15-25 mm long
3	Fine sandy loam	As for sandy loams, except that individual sand grains are not visible, although they can be heard and felt; gives a ribbon 15-25 mm long
	Loam	As for sandy loams but cast feels spongy, with no obvious sandiness or silkiness; may feel greasy if much organic matter is present; forms a thick ribbon about 25 mm long
	Silty Loam	As for loams but not spongy; very smooth and silky; will form a very thin ribbon 25mm long and dries out rapidly
4	Sandy clay loam	Can be rolled into a ball in which sand grains can be felt; forms a ribbon 25-40 mm long
	Fine sandy clay	As for sandy clay loam, except that individual sand grains are not visible although they can be heard and felt; forms a ribbon 40-50 mm long
	Clay loam	Can be rolled into a ball with a rather spongy feel; slightly plastic; smooth to manipulate; will form a ribbon 40-50 mm long
	Silty clay loam	As for clay loams but not spongy; very smooth and silky; will form a ribbon 40-50 mm long; dries out rapidly
5	Sandy clay	Forms a plastic ball in which sand grains can be seen, felt or heard; forms a ribbon 50-75 mm long
	Light clay	Smooth plastic ball that can be rolled into a rod; slight resistance to shearing between thumb and forefinger; forms a ribbon 50-75 mm long
	Silty clay	As for light clay but very smooth and silky; will form a ribbon about 50-75 mm but very fragmentary; dries out rapidly
6	Medium clay	Smooth plastic ball, handles like plasticine and can be moulded into rods without fracture; some resistance to ribboning, forms a ribbon 75 mm or more long
	Heavy clay	Smooth plastic ball that handles like stiff plasticine; can be moulded into rods without fracture; firm resistance to ribboning; forms a ribbon 75 mm or more in length

Reasons for placing in stated category

PART E: Discharge Details

E1. Water supply source for the property (please tick):

Rainwater (roof collection)	
Bore/well	
Public supply	

E2. Calculate the maximum daily volume of wastewater to be discharged, unless accurate water meter readings are available *(Refer Schedule 6 and NZS1547:2012 Table H3).*

Number of Bedrooms		
Design Occupancy		(Number of people)
Per capita Wastewater Production		(Litres per person per day)
Other – Specify		
Total Daily Wastewater Production		(Litres per day)

E3. Do you propose to install?

a) Full Water Conservation Devices?	Yes		No		*(Please tick)*
b) Water Recycling – what %?	%		No		*(Please tick)*

If you have answered Yes, please provide additional information including the estimated reduction in water usage:

E4. Is Daily Wastewater Discharge Volume more than 2,000 litres?

Yes		No		*(Please tick)*

Note if the answer to the above is yes, then a resource consent for the wastewater discharge will be required from Bay of Plenty Regional Council.

PART F: Primary Treatment *(Refer NZS 1547:2012 Appendix J)*

F1. Indicate below the number and capacity (litres) of all septic tanks including type (single/dual chamber grease traps) to be installed or currently existing:

Number of Tanks	Type of Tank	Capacity of Tank (Litres)
	Total Capacity	

F4. Is a Septic Tank Outlet Filter to be installed?

Yes		No		*(Please tick)*

If yes, please state the type, manufacturer and serial number.

Must comply with NZS 1546.1:2008 Appendix D

PART G: Secondary and Tertiary Treatment

G1. Indicate the type of additional treatment, if any, proposed to be installed in the system (please tick):

Secondary Treatment			
Home aeration plant			
Commercial aeration plant			
Intermediate sand filter			
Recirculating sand filter			
Clarification tank			
Tertiary Treatment			
Ultraviolet disinfection			
Chlorination			
Other		Specify	

PART H: Land Application Method

H1. Indicate the proposed loading method (please tick):

Gravity	
Dosing Siphon	
Pump	

H2. Is a high water level alarm being installed in pump chambers?

Yes		No		*(Please tick)*

H3. If a pump is being used, please provide the following information:

Total Design Head		(m)
Pump Chamber Volume		(Litres)
Emergency storage volume		(Litres)

H4. Identify the type(s) of land disposal method proposed for this site (please tick) *(Refer NZS 1547:2012 Appendices K to N):*

Surface Dripper Irrigation	
Sub-surface Dripper Irrigation	
Standard Trench	
Deep Trench	
Mound	
Evapo-transpiration Beds	
Other (Please Specify)	

H5. Identify the loading rate you propose for the option selected in Part H, Section 4 above stating the reasons for selecting this loading rate: *(Refer NZS 1547:2012 Tables L1 and L2)*

Design loading rate (DLR)			(mm/day)
Disposal Area	Basal		(m^2)
	Total		(m^2)

Explanation *(Refer NZS 1547:2012 Appendix L and Appendix M)*

H6. What is the available reserve land application area? *(Refer NZS 1547:2012 5.5.3.4)*

Reserve Disposal Area (m^2)	
Percentage of Primary Disposal Area (%)	

H7. Provide a detailed description of the layout, design and dimensions of the land application system and show these on the (B1) Site Plan, in particular show the land application area and layout relative to property site features. Also show the reserve land application area:

Description and Dimensions of Disposal Field:

Refer to NZS 1547:2012 Appendix R

Site Plan Attached?	Yes		No		(Please tick)

If not, explain why not.

PART I: Maintenance and Management *(Refer NZS 1547:2012 section 6.3 and Appendix U)*

I1. Has a maintenance agreement been made with the treatment and disposal system suppliers?

Yes		No		*(Please tick)*

PART J: Risk Management

J1. Is a Risk Reduction Report included with application? *(Refer NZS 1547:2012Appendix A. Ensure all issues concerning potential effects addressed)*

Yes		No		*(Please tick)*

J2. Are there any specific environmental constraints?

Yes		No		*(Please tick)*

If Yes, please explain

PART K: Is your application complete?

K1. In order to provide a complete application you have remembered to:

Fully complete this **Site and Soil Evaluation Checklist**	
Include a **Location Plan** and **Site Plan** (see B1 and H7)	
Include a **Property Title** (Certificate of Title)	
Attach a **Risk Reduction Report** – NZS1547:2012 Appendix A	

K2. Declaration

I hereby certify that, to the best of my knowledge and belief, the information given in this application is true and complete.

Name		**Signature**	
Position		**Date**	