

Site, Soil, System & Environmental Assessment report for an on-site sewage management system

Please **complete** form and **deliver** or **fax** to Port Stephens Council

For properties identified with a hazard class that is **Low** or **Medium** **Low** **Med**

Note: This Pro-forma cannot be used for properties identified with a hazard class High or Very High

To be completed by a wastewater consultant or Council approved site evaluator when wastewater management will involve the on-site disposal of effluent.

OFFICE USE ONLY

Application No

Date of Receipt

The Evaluator

Company Name	<input type="text"/>		
Name of Evaluator	<input type="text"/>		
Address	<input type="text"/>		
Postcode	<input type="text"/>	Phone	<input type="text"/>
Signature	<input type="text"/>	Assessment Date	<input type="text"/>

Declaration of Evaluator I declare that the information contained within this report is a true and accurate record of the site and soil assessment undertaken

Property Details

Lot	<input type="text"/>	House No.	<input type="text"/>
Street Name	<input type="text"/>		
Town	<input type="text"/>	Postcode	<input type="text"/>
Water Supply Available	<input type="checkbox"/> Town	<input type="checkbox"/> Tank	<input type="checkbox"/> Dam/Creek/Bore

Development Details

Type of Development Residential Dwelling Rental Dwelling This form cannot be used for non-residential development.

Number of Bedrooms 1 2 3 4 5 6

Site Assessment

Site Assessment	Low Hazard Class		Medium Hazard Class	
	Limit	Comply (tick or cross)	Limit	Comply (tick or cross)
Aspect/exposure of disposal area (sun and wind)	High	<input type="checkbox"/>	Moderate	<input type="checkbox"/>
Slope of disposal area	< 10%	<input type="checkbox"/>	10 – 20%	<input type="checkbox"/>
Flooding – is the property flood prone?	> 1:100 year AEP	<input type="checkbox"/>	> 1:20 year AEP	<input type="checkbox"/>
Hunter Water Special Area (catchment)	Outside	<input type="checkbox"/>	Outside	<input type="checkbox"/>
Depth to bedrock or hardpan?	> 1.0 metres	<input type="checkbox"/>	> 0.6 metres	<input type="checkbox"/>
Depth to groundwater?	> 1.0 metres	<input type="checkbox"/>	> 0.6 metres	<input type="checkbox"/>
Groundwater bore – distance to disposal area?	> 250 metres	<input type="checkbox"/>	> 250 metres	<input type="checkbox"/>
Permanent waters – distance to disposal area?	> 100 metres	<input type="checkbox"/>	> 100 metres	<input type="checkbox"/>
Dams, drains, intermittent watercourses – distance to disposal area?	> 40 metres	<input type="checkbox"/>	< 40 metres	<input type="checkbox"/>
Vegetation - removal for disposal area?	No	<input type="checkbox"/>	Yes/No	<input type="checkbox"/>
Any other health or environmental constraints specific to the property?	No	<input type="checkbox"/>	Yes/No	<input type="checkbox"/>
Soil classification (AS/NZS 1547:2000)	Cat. 2-5	<input type="checkbox"/>	Cat 1-5	<input type="checkbox"/>

Refer to assessment guidelines for assistance in completing this section

Soil Assessment

Two test holes are to be dug in a central location in the primary and reserve (where applicable) disposal areas. These holes should be MADE SAFE and marked after site assessment to allow for future Council inspection. The test holes must be of a depth appropriate for the proposed disposal method.

Layer	Refer to assessment guidelines for assistance in completing this section				
	Depth of Layer (mm)	Colour	Structure	Texture	Notes
1					
2					
3					
4					

Hole terminated in:

Soil Texture Codes

S = Sand, SL = Sandy Loam, L = Loam, CL = Clay Loam, LC = Light Clay, MHC = Medium / Heavy Clay

Soil Structure Codes

SG = Single Grained, W = Weak, Md = Moderate, S = Strong, Ms = Massive

Acceptable Solution Selection / Sizing the Land Application Area (LAA)

Low Hazard Class Properties	Yes →	All answers in section 5 comply with low HC limit →	Obtain size of LAA from App. A of DAF using the key on page A-1 →	LAA Size	m2
		1 or more answers in section 5 don't comply with low HC limit →	<ul style="list-style-type: none"> Provide additional information to justify or overcome identified constraint(s). LAA may still be sized from Acceptable Solutions, however site specific design calculations may be necessary to demonstrate ability to manage constraints. Design LAA to overcome identified constraint(s). 		
Medium Hazard Class Properties	Yes →	All answers in section 5 comply with medium HC limit →	Obtain size of LAA from App. A of DAF using the key on page A-1 →	LAA Size	m2
		1 or more answers in section 5 don't comply with medium HC limit →	<ul style="list-style-type: none"> Detailed site and soil assessment in accordance with the High hazard DAF procedure (Section 1.3 of DAF) completed by a suitably qualified consultant. Acceptable Solution sizing tables in Appendix A of DAF cannot be used. Site specific design calculations in accordance with the High hazard DAF must be undertaken (refer to Section 1.3 of the DAF). 		

Treatment System

Treatment System considered best suited to site:

- Aerated Water Treatment System
 Septic Tank
 Wet Composting
 Dry Composting
 Sand/Media Filter
 Constructed Wetland
 Other (nominate):

System Manufacturer

Nominated Hydraulic Capacity (L/day)

Note: Land application pumps, valves, filter and pipework must be sized on a site specific basis to ensure the correct operation of the land application system.

Disposal Area considered best suited to site and treatment system:

- Sub-surface
 Surface Spray
 Surface Drip
 Evapo-transpiration
 Absorption Trench
 Wisconsin Mound
 Other (nominate):

Site Plan

Please attached a minimum A4 (1:500) Plan showing:

- Location of tank(s) and primary/reserve (where applicable) land application areas:
- Location of all effluent pipework (drinkerline etc) and all relevant hardware (valves etc):
- Location of boundaries, drains, buildings, swimming pools, paths, groundwater bores, dams and waterways:
- Location of stormwater diversion drains and earth bunds: and
- Approximate slope angle and direction.

Assessment Guidance Notes

Report Evaluator

The declaration must be signed by the site and soil evaluator for the assessment to be accepted. Council will verify the accuracy of assessments undertaken by all evaluators. Inaccurate or misleading evaluations will not be accepted.

Site Assessment

- Slope may be estimated visually.
- Subsurface criteria must be assessed through excavation of at least one soil test pit within the proposed land application area(s).
- Soil classification shall be conducted through textural analysis as described in Appendix 4.1D of ASNZS1547:2000.
- Approval may be required for removal of vegetation under Council's Tree Preservation Order. It is the responsibility of the property owner to obtain approval where necessary.
- Failure to declare obvious property constraints may trigger additional investigation requirements.

Soil Assessment

- Reference can be made to Section 6.1 of the Development Assessment Framework for more guidance on soil assessment.
- Appendix 4.1D of ASNZS1547:2000 can also be used to evaluate soil texture and structure.
- Soil profiles should be reported to a depth of 600mm below the point of application / base of trench or to depth of refusal.
- Coarse fragments (gravel, cobbles, boulders etc) should be noted.
- Colour should be recorded as dominant colour in addition to mottles.

Acceptable Solution / Land Application Area Sizing

- All information required to determine the minimum LAA size from the Acceptable Solutions in the DAF are contained in this form. They include location (climate zone), number of bedrooms, water supply, soil classification (ASNZS 1547:2000 and LAA type).
- For Low HC, Acceptable Solutions can still be used where the site and soil criteria in Section 5 are not met. Use will be subject to satisfactory demonstration that observed constraints can be adequately managed.
- For Medium HC, Acceptable Solutions can only be used where ALL criteria in Section 5 are met.

Submit

Please return your completed and signed form to:

In person/mail



Customer Relations
Port Stephens Council Administration Building
PO Box 42 Raymond Terrace NSW 2324

Fax 4987 3612

Email OSM@portstephens.nsw.gov.au