

SWIS Design Inputs summary worksheet

Job: _____ Date: _____ Designer: _____

Daily Design Flow

From SPM section 2.2.1

House number of bedrooms _____ Base flow: _____ L/day

House floor area (sq m) _____

1 sqm = 10.76 sqft

Maximum floor area (sqm) _____
for # bedrooms (*from SPM*)

Additional floor area (sqm) _____ x 4.5 L/dy per sqm _____ L/Day

Total daily design flow Q = _____ L/Day

Peaking factor: **2** **Average flow = Q / 2 = _____ L/Day**

Soil/site information

A. Chosen soil type

Texture: _____ Structure: _____ Grade: _____ Consistency: _____

Percolation rate: _____ min/inch Kfs: _____ mm/day

B. Soil depth in field area and 7.5m or 15m downslope (*7.5m pressure, 15m gravity*)

Soil depth to SHWT or RL: _____ cm Type of restriction: _____

Soil proposed Vertical Separation: _____ cm Downslope VS (to 7.5m or 15m) _____ cm

C. Site slope in field area and 7.5m or 15m downslope

Slope % : _____ Type: _____ Location.: _____

Site capability: _____ System type: _____

Loading rates

From SPM table 2-8, 2-11.

Proposed effluent type: _____ Mound? _____ Time dose? _____

LLR: _____ L/m/day Proposed total VS: _____

HLR: _____ L/sqm/day (*Basal loading if for mound*)

Minimum system length = Q/LLR _____ ÷ _____ = _____ Meters

AIS = Q/HLR _____ ÷ _____ = _____ Square Meters

For seepage bed systems use AIS x 1.35