

1. Erosion Hazard and Sediment Basins

Site Name: Wyndham City Council

Site Location:

Precinct/Stage:

Other Details:

Site area	Sub-catchment or Name of Structure						Notes
	RUSLE 1/2	RUSLE 3/4	RUSLE 5	SB1	SB2	SB3	
Total catchment area (ha)							
Disturbed catchment area (ha)							
Soil analysis (enter sediment type if known, or laboratory particle size data)							
Sediment Type (C, F or D) if known:							If known. Type D is worst-case.
% sand (fraction 0.02 to 2.00 mm)							Enter the percentage of each soil fraction. E.g. enter 10 for 10%
% silt (fraction 0.002 to 0.02 mm)							
% clay (fraction finer than 0.002 mm)							
Dispersion percentage							E.g. enter 10 for dispersion of 10%
% of whole soil dispersible							Pg 3.15 (IECA, 2008)
Soil Texture Group							Automatic calculation from above
Rainfall data							
Rainfall R-factor (if known)							Only need to enter one or the other here
IFD: 2-year, 6-hour storm (if known)							
RUSLE Factors							
Rainfall erosivity (<i>R</i> -factor)							Auto-filled from above
Soil erodibility (<i>K</i> -factor)							RUSLE LS factor calculated for a high rill/interrill ratio. See Appendix E of IECA (2008)
Slope length (m)							
Slope gradient (%)							
Length/gradient (<i>LS</i> -factor)							
Erosion control practice (<i>P</i> -factor)							
Ground cover (<i>C</i> -factor)							
Calculations Erosion Hazard							
Soil loss (t/ha/yr)							
Soil Loss Class							Pg 3.4 (IECA, 2008)
Soil loss (m ³ /ha/yr)							Conversion to cubic metres - assumes 1.3 t/m ³
Is a Basin Required?							Refer to Table B1 Pg B.6 (IECA, 2018)
Sediment Basin Type							
Soil/Catchment Details							
Duration of soil disturbance							<70% effective ground cover (<i>C</i> ≥ 0.05)
Is the soil coarse?							< 33% finer than 0.02mm & ≤ 10% dispersive
Are WQOs likely to be met by Type C basin?							Particle settlement testing is recommended
Is automated dosing reasonable or practicable?							Does physical layout allow forebay inflow?
Required Basin Type	N/A	N/A	N/A	N/A	N/A	N/A	Refer to Table B2 Pg B.7 (IECA, 2018)