



	SECTION9 PUMPEDSYSTEMS
	9.1 SCOPE OF SECTION
	This Section specifies criteria for pumped systems.
	9.2 GENERAL
	Pumped systems are for areas normally less than 2000 m2 where it is not possible for the stormwater to
	be discharged by gravity through the available gravitational point of connection.
	The pumping equipment shall include a wet well, pumps and motors, pipework and electrical equipment
	and be located to facilitate easy connection to either the surface water system or the pumped point of
	connection.
	NOTE: An illustration of the application of this Section is given in Appendix L.
	9.3 WET WELLS
	9.3.1 General
	Wet wells, for submersible or non-submersible type pumps, shall be installed in accessible locations.
	9.3.2 Construction and materials
	The structure shall be sound and constructed of materials that will resist corrosion from ground water and
	aggressive soils.
	Authorized materials include pre-cast or cast in situ reinforced concrete, corrosion-resistant metals,
	brickwork or glass-reinforced plastics.
	9.3.3 Base
	The base shall be constructed of materials compatible with the walls and shall maintain a self-cleansing
	gradient towards the pump inlet. The base shall be supported on stable ground.
	9.3.4 Cover
	The cover shall be constructed of similar materials to that of the wet well and shall have removable access
	openings sized for maintenance purposes. If the access opening is airtight, a breather pipe with a
	non-corrodible screen shall be installed.
	9.3.5 Ladders
	Where a wet well exceeds a depth of 1.2 m, a ladder, in accordance with Clause 8.6.5.4, shall be installed.
	9.3.6 Combined effective storage
	The capacity of the pumped system shall be achieved by a combination of pump capacity and wet well
	storage between the high and low working levels of the wet well. The combined effective storage
	comprising the volume able to be pumped in 30 min plus the
	wet well storage shall not be less than the volume of the run-off from the storm of ARI = 10 years and
	duration of 120 min, or as otherwise directed by the authority having jurisdiction. The maximum pump
	capacity shall be as detailed in Clause 9.4(a). The
	minimum wet well storage between the high and low working levels expressed in cubic metres shall be 1%
	of the catchment area in m2 but in any case shall not be less than 3 m3. NOTE: The minimum pump
	capacity should be 10.1 /s



