

Wavin AquaCell NG

Installed correctly AquaCell NG can provide an attenuation tank or soakaway system that can be accessed for inspection and maintenance. Depending on the specific design detail access is via either access turrets over the tank allowing direct access or via inspection chambers around the perimeter of the tank.

Maintenance Requirements

Regular inspection and maintenance is required to ensure the effective long-term operation of below ground storage systems and soakaways. Maintenance responsibility for systems should be placed with a responsible organisation. The below provides guidance on the type of operational and maintenance requirements that may be appropriate. The list of actions is not exhaustive, and some actions may not always be required.

Maintenance plans and schedules should be developed during the design phase, and will be specific to the type of tank or soakaway that is adopted. The maintenance needs of the system should be monitored and maintenance schedules adjusted to suit requirements.

The information below is extracted from C753: The SuDS Manual

Operation and maintenance requirements for attenuation storage tanks

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Inspect and identify areas that are not operating correctly/ If required, take remedial action.	Monthly for three months then annually
	Remove debris from the catchment area surface (where it may cause risk to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface if filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary.	Annually
	Remove sediment from pre-treatment structure and/or internal forebays.	Annually, or as needed
Remedial Actions	Repair/rehabilitate inlets. Outlets. Overflows and vents.	As required
Monitoring	Inspect/check all inlets, outlets. Overflows and vents	Annually
	Survey inside of tank for sediment buildup and remove if necessary	Every five years or as required

Operation and maintenance requirements for soakways

Maintenance Schedule	Required Action	Typical Frequency
Regular maintenance	Inspect for sediment and debris in pre-treatment components and floor of inspection chamber	Annually
	Cleaning of any gutters and filters on downpipes	Annually, or as needed
	Trimming of roots that may be causing blockages	Annually, or as needed
Occasional maintenance	Remove sediment from pre-treatment structure and/or internal forebays.	As required, based on inspections
Remedial Actions	Reconstruct soakaway and/or replace or clean void if performance deteriorates or failure occurs	As required
	Replacement of clogged geotextile (will require reconstruction of soakway).	As required
Monitoring	Inspect silt traps and note rate of sediment accumulation	Monthly in the first year then annually
	Check soakaway to ensure emptying is occurring.	Annually

Maintenance will usually be carried out manually, although a suction tanker can be used for sediment/debris removal for large systems. If maintenance is not undertaken for long periods, deposits can become hard packed and require considerable effort to remove.

References

Woods Ballard, B., Wilson, S., Udale-Clarke, H., Illman, S., Scott, T., Ashley, R., Kellagher, R., CIRIA C753 (2015)
The SuDs Manual, CIRIA, London, UK
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