Aquabox O&M Guide

Introduction

Regular inspection and maintenance are essential to ensure a properly functioning stormwater system. Inspection is easily accomplished through the inspection ports. Please follow local and OSHA rules for a confined space entry.

Inspection ports allow the inspection to be accomplished completely from the surface without the need for a confined spaced entry. Inspection ports provide visual access to the system with the use of a flashlight. A stadia rod may be inserted to determine the depth of sediment. If upon visual inspection throughout the system it is found that sediment has accumulated to an average depth exceeding 3" (75 mm), cleanout is recommended.

Make sure that no foreign objects enter into the pipes or the Aquabox modules. A first check is recommended after complete installation of the system. A visual inspection of the system and upstream inlets is recommended. These inspections should then be recorded in a maintenance book of the system. Further checks should take place every six months for the first year of use.

The inspections will give useful information to schedule future inspection and cleaning intervals. In the case of intense storm events (e.g. 10-year rain events), it is recommended to inspect all system parts and if warranted, the system many need to be cleaned/jet vac'ed.

Cleaning operations must start with the cleaning of the supply pipes and upstream structures, especially if they also act as a sediment trap. Thereafter the system should be inspected preferably in spring or autumn, and after extreme weather events.

System inspection is recomended in the following periods:

- End of construction site operations
- After intense rainfall events
- In case of failure or malfunction of the pretreatment units, if applicable
- At least once a year.

Cleaning of the Aquabox Modules

Cleaning of the Aquabox system can be carried out by cleaning and vacuuming the sediment/ debris from the inspection shaft. In cases of high amounts of sediment, cleaning of the whole Aquabox system must be done with high pressure cleaning of the internal channels.

When cleaning with a spray probe, it is recommended to use nozzles with a rotation of 90° and a water jet at 45°. The nozzles used must have a pressure between 1,160 - 1,740 psi (7,997 - 11,996 kPa), higher pressure values could damage the geotextile. The clear passage within the Aquabox modules is 6.5" (162.5 mm).Please make sure that any inspection or cleaning equipment used within the tank does not exceed this width.

For systems with multiple layers, only the modules located at the lower part should be inspected and cleaned.

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