

NEPTUNE 500 ATTENUATION CRATE

Operation & Maintenance (O&M) Manual



1. Document Purpose

This manual provides a standardised framework for the operation and maintenance of Neptune 500 sustainable drainage crates. It must be adapted to align with specific site conditions, system configurations, and local responsibilities.

2. Project Overview

- Site Name & Location: [Insert Name/Address]
- Client: [Insert Client Name]
- Issue Date: [Insert Date]
- Zuble Product(s): [Insert specific model/product]

3. System Introduction

This manual outlines the operational requirements for Neptune attenuation crates in accordance with manufacturer specifications. While these systems are designed for long-term performance and durability, regular inspection and maintenance are required to ensure the surface water drainage network continues to function as intended.

- **Adaptability:** The recommended maintenance frequencies provided are baseline estimates. Initial inspections should be carried out more frequently to establish a site-specific performance baseline, after which frequencies may be adjusted based on observed sediment loading and system performance.

4. Site Specifications & Design

- **Location Records:** Detailed records of attenuation tank locations, dimensions, installation depths, and cover levels must be maintained to support identification, access, and future maintenance.
- **Design Criteria:** Systems are typically designed to manage specific hydraulic events (e.g. 1-in-100-year storm event plus climate change allowance).
- [Insert site-specific design criteria here]

5. Maintenance Schedule & Procedures

All maintenance must be performed in accordance with current Health and Safety best practices.

Action Category	Required Task	Frequency
Routine Monitoring	Inspect inlets, outlets, overflows, and vent outlets for blockages or debris.	Bi-annually and after major storm events
Pre-treatment Care	Remove debris and sediment from catch pits or silt traps.	Bi-annually and after major storm events
Structural Survey	Internal CCTV survey to monitor sediment accumulation and structural integrity.	Every 5 years (or as required)
Remedial Works	Repair or rehabilitation of inlets, outlets, vents, and overflows.	As identified during inspection

