

# Gateway 36, Barnsley

## Drainage Maintenance and Management Plan




June, 2023



**FAIRHURST**

## CONTROL SHEET

**CLIENT:** FIRETHORNE TRUST  
**PROJECT TITLE:** GATEWAY 36, BARNSELEY  
**REPORT TITLE:** DRAINAGE MAINTENANCE AND MANAGEMENT PLAN  
**PROJECT REFERENCE:** 151252  
**DOCUMENT NUMBER:** R1.0

Issue & Approval Schedule	Issue 1 INFORMATION		Name	Signature	Date
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Revision Record	Rev.	Date	Status	Description	Signature	
	1				Prepared By	
					Checked	
					Approved	
	2				Prepared By	
					Checked	
					Approved	
	3				Prepared By	
					Checked	
					Approved	

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TABLE OF CONTENTS

1 INTRODUCTION .....1

2 POND .....2

3 HEALTH AND SAFETY .....3

## 1 INTRODUCTION

The pond proposed as part of the works is shown on Fairhurst's 151252/02000 drawing series. All works should be undertaken by suitably qualified personnel and waste should be treated and removed by an appropriately registered company.

## 2 POND

Ponds will require maintenance to ensure continuing operation to design performance standards. The treatment performance of ponds is dependent on maintenance and robust management plans are required to ensure maintenance is carried out in the long term.

Maintenance of ponds is generally straight forward for Landscape contractors. Regular inspection and maintenance is important for the effective operation of ponds as designed. Maintenance responsibility for a pond and surrounding areas should always be placed with a responsible organisation. Litter and debris removal should be undertaken as part of general landscape maintenance for the site and before any other SuDS management task. All litter should be removed from site.

Any invasive maintenance work such as silt or vegetation removal is only required intermittently, but it should be planned to be sympathetic to the requirements of wildlife in the pond. Care should be taken to avoid the disturbance of nesting birds during the breeding season and habitats of target species such as great crested newts and water voles at crucial times. The window for carrying out maintenance to achieve this is usually towards the end of the growing season (typically September / October) although this will vary with species. Invasive silt and vegetation removal should only be carried out to limited areas at any one time (25 – 30% of the pond area on one occasion each year to minimise the impact on biodiversity)

Site vegetation should be trimmed as necessary to keep the pond free of leaves and to maintain the aesthetic appearance of the site. Slope areas that have become bare should be re-vegetated and any eroded areas should be regraded before replanting.

Sediments excavated from ponds that receive runoff from residential or standard road and roof areas should be safely disposed of in accordance with current waste management legislation, however consultation should take place with the environment regulator to confirm appropriate protocols. Chemical testing of the sediment may be required prior to sediment excavation to determine its classification and appropriate disposal methods. In the majority of cases on low risk sites with source control and a management train it will be acceptable to distribute the sediment on site. If there is an appropriate safe and acceptable location to do so.

New ponds may become rapidly dominated by invasive native plants, particularly common bulrush (*Typha latifolia*) As it is not desirable for all new ponds to be bulrush dominated it should be ensured that in the first 5 years whilst vegetation is establishing, certain plant growth is controlled. After this time ponds can usually be allowed to develop naturally recognising that, unless margins are occasionally managed, they are likely to become dominated by trees and shrubs.

Maintenance schedule	Required action	Frequency
Regular Maintenance	Remove litter and debris	Monthly (or as required)
	Cut the grass – public areas	Monthly (during growing season)
	Cut the meadow grass	Half yearly (spring, before nesting season and autumn)
	Inspect marginal and bankside vegetation and remove nuisance plants (for first 3 years)	Monthly (at start, then as required)
	Inspect inlets, outlets, banksides, structures, pipework etc for evidence of blockage and / physical damage	Monthly
	Inspect water body for signs of poor water quality	Monthly (May – October)
	Inspect silt accumulation rates in the pond and establish appropriate removal frequencies; undertake contamination testing once some build up has occurred, to inform management and disposal options	Half yearly
	Check any mechanical devices such as flow control	Half yearly
	Hand cut submerged and emergent aquatic plants (at minimum of 0.1m above pond base, include maximum 25% of pond surface)	Annually
	Remove 25% of bank vegetation from waters edge to a minimum of 1m above water level	Annually
	Tidy all dead growth (scrub clearance) before start of growing season (Note: tree maintenance is usually part of overall landscape management contract)	Annually
	Remove sediment and planting from one quadrant of the main body of pond.	Every 1 – 5 years or as required
	Visual inspection of perimeter fence	Half yearly – Repair / replace as required
	Visual inspection of safety rings and throw lines	Half yearly – Repair / replace as required
Ocasional maintenace	Remove sediment from the main body of the pond when volume is reduced by 20%	With effective pre-treatment tis will only be required rarely, eg every 20 – 25 years
Remedial actions	Repair erosion or othe danmage	As required
	Replant where necessary	As required
	Relign rip-rap or repair damage	As required
	Repair / rehabilitate inlets, outlets and overflows	As required

### **3 HEALTH AND SAFETY**

Employers shall, so far as is reasonably practical, provide and maintain systems of work that are safe and without risks to health. The systems of work shall cover all aspects of the works including above-ground operations (for example manhole location and traffic control), access to the sewer system and all operations in the confined space of the sewer system.

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