

77272-BACE- Ringley Road, Manchester

Initial Pre Contract Drainage maintenance schedule – guidance only

Operation and maintenance requirements for attenuation- GRAF ECOBLOC MAX –

Guidance only-to be read in conjunction with manufactures specific maintenance requirements.

Maintenance Schedule	Required action	Frequency
Regular maintenance	Remove visible litter and debris. From gullies and inlets	On completion 3 Monthly.
	Inspect inlets, outlets and overflows for blockages, and clear if required.	3 Monthly (for first year, then annually or as required).
	Inspect banksides, structures, pipework etc. for evidence of physical damage.	3 Monthly (for first year, then annually or as required).
	Inspect inlets and facility surface for silt accumulation. Establish appropriate silt removal frequencies.	3 Monthly (for first year, then annually or as required).
	Check any penstocks and other mechanical devices	Annually.
	Remove sediment from inlets, outlet and forebay.	After 12 months and then as required (likely to be minimal requirements where effective upstream source control is provided).
Occasional maintenance	Re-seed areas of poor vegetation growth.	As required.
	Prune and trim nearby trees and remove cuttings.	Every 2 years, or as required.
	Remove sediment from inlets, outlets, forebay and main basin when required	After 12 months and then as required (likely to be minimal requirements where effective upstream source control is provided).
	Inspect all manholes and inspection chambers for signs of debris and damage	Every 2 years, or as required.
	Camera survey surface water system (jet out debris as required)	Every 10 years, or as required

Operation and maintenance requirements for flow control units – HYDRO BRAKE

Guidance only-to be read in conjunction with manufactures specific maintenance requirements.

Maintenance Schedule	Required action	Frequency
Regular maintenance	Remove visible litter and debris.	3-6 Monthly.
	Inspect inlets, outlets and overflows for blockages, and clear if required.	3-6 Monthly and then as manufactures guidance.
	Inspect trash, baffle plates and filters and remove any significant debris.	3-6 Monthly (for first year, then annually or as required).
	Inspect inlets , silt trap and upstream manholes for silt accumulation. Establish appropriate silt removal frequencies.	3-6 Monthly (for first year, then annually or as required).
		6 months then as manufactures guidance
Ongoing	Any Remove oil/grease build up	Annually or as required
Occasional maintenance	Clean and replace filters and trash plates.	As required.
	Full empty and clean of the unit	Every 5 years, as manufactures guidance
	Check and flush Penstock valve	3-6 Monthly (for first year, then annually or as required).
	Inspect all manholes and inspection chambers for signs of debris and damage	3-6 Monthly (for first year, then annually or as required).
	Camera survey surface water system (jet out debris as required)	Every 5 years, or asrequired

Operation and maintenance requirements for pervious pavements

Maintenance Schedule	Required action	Frequency
Regular maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface).	Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations - pay particular attention to areas where water runs onto pervious surface from adjacent impermeable areas as this area is most likely to collect the most sediment.
Occasional maintenance	Stabilise and mow contributing and adjacent areas.	As required.
	Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying.	As required - once per year on less frequently used pavements
Remedial actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of the level of the paving.	As required.
	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material.	As required.
	Rehabilitation of surface and upper sub-structure by remedial sweeping.	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging).
Monitoring	Initial inspection.	Monthly for three months after installation.
	Inspect for evidence of poor operation and/or weed growth - if required, take remedial action.	Three-monthly, 48 h after large storms in first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies.	Annually.
	Monitor inspection chambers	Annually.

Maintenance responsibility

Pre handover-construction:

- Appointed Contractor + client

Post construction – long term:

- TS Ringley Rd Ltd, 10 Crown Passages, Hale, Altrincham, WA15 9GN.