APPENDIX F SUDS MANAGEMENT PLAN





PROPOSED RESIDENTIAL DEVELOPMENT AT LONG MILE ROAD, DUBLIN 12, CO. DUBLIN



SuDS Management Plan

March 2025







Proposed Residential Development at Long Mile Road, Dublin 12, Co. Dublin

SuDS Management Plan

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Proposed Residential Development at Long Mile Road, Dublin 12, Co. Dublin

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1. INTRODUCTION

This document provides an overview of the SuDS development proposals and associated operation and maintenance requirements for a proposed residential development at Long Mile Road, Dublin 12.

The development will comprise a Large-Scale Residential Development (LRD) on a site at Parkmore Industrial Estate, Long Mile Rd, Robinhood, Dublin, 12. The proposed development will comprise the demolition of existing industrial units, and construction of a mixed use, residential-led development within 4 no. blocks ranging in height from 06 to 10 storeys over semi-basement. The development will comprise the following: 436 no. apartments (studios; 1 beds; 2 beds and 3 beds) with commercial/employment units, creche, café and library. Provision of car, cycle and motorbike parking. Vehicular accesses from Parkmore Estate Road and additional pedestrian/cyclist accesses from the Long Mile Road and Robinhood Road. Upgrade works to the estate road and surrounding road network. All associated site development works and services provision, open spaces, ESB substations, plant areas, waste management areas, landscaping and boundary treatments.

2. PROPOSED SUDS MEASURES

Sustainable Drainage Systems (SuDS) are approaches to manage surface water runoff from development that take account of water quantity (flooding), water quality (pollution), biodiversity (wildlife and plants) and amenity. SuDS mimic nature and typically manage rainfall close to where it falls. SuDS are designed to transport (convey) surface water, slow runoff down (attenuate) before it enters watercourses, they provide areas to store water in natural contours and can be used to allow water to soak (infiltrate) into the ground or evaporated from surface water and lost or transpired from vegetation (known as evapotranspiration).

As part of the development, a number of different SuDS measures are proposed to minimise the impact on water quality and water quantity of the runoff and maximise the amenity and biodiversity opportunities within the site. The proposed SuDS measures will include Source Control measures as part of a Management Train whereby the surface water is managed locally in small sub-catchments rather than being conveyed to and managed in large systems further down the catchment. The combination of the SuDS measures listed below will maximise the potential for surface water attenuation and treatment, reducing the impact on the existing surface water drainage network downstream. The proposed techniques will offer high level of treatment processes and nutrient removal of the runoff, particularly during the 'first flush'. Finally, the various measures will offer significant amenity and biodiversity opportunities compared to other drainage systems. The SuDS measures have been designed to consider the effects of climate change, to ensure that they are adaptable to future climate conditions.

The following SuDS measures are to be incorporated as part of the development:

- Blue/green roof systems to all building blocks and areas above basements
- Rain Gardens to manage runoff from the central pathway through the site
- Vegetated swales
- Flow control devices to limit discharge

3. OPERATION AND MAINTENANCE PLAN

The SuDS operation and maintenance plan outlined below should be read in conjunction with the SuDS Layout Plan in Appendix A. All recommended operations are to be carried out as required/ needed.

Table 3.1 SuDS Operation and Maintenance Requirements: Blue / Green Roof

Maintenance Schedule	Operation Maintenance Activities	Frequency
Regular Inspections	Inspection of all components including soil substrate, vegetation, drains, membranes and roof structure for proper operation, integrity of waterproofing and structural stability	Annually and after severe storms
	Inspect soil substrate for evidence of erosion channels and identify any sediment sources	Annually and after severe storms
	Inspect drain inlets to ensure unrestricted runoff from the drainage layer to the conveyance or roof drain system	Annually and after severe storms
	Inspect underside of roof for evidence of leakage	Annually and after severe storms
	Inspect all outlets / overflows, checking the flow restrictor has not been tampered with, damaged or removed.	Annually and after severe storms
	Ensure there is no openings that might allow leaves and debris into the blue roof system	Annually and after severe storms
Regular Maintenance	Remove debris and litter to prevent clogging of inlet / outlet / overflow drains and interference with plant growth	Six monthly and annually or as required
	During establishment (ie year one), replace dead plants as required	Monthly
	Post establishment, replace dead plants as required (where > 5% of coverage)	Annually (in autumn)
	Remove fallen leaves and debris from deciduous plant foliage	Six monthly or as required
	Remove nuisance and invasive vegetation, including weeds	Six monthly or as required
	Mow grasses, prune shrubs and manage other planting (if appropriate) as required – clippings should be removed and not allowed to accumulate	Six monthly or as required
Remedial Actions	If erosion channels are evident, these should be stabilised with extra soil substrate similar to the original material, and sources of erosion damage should be identified and controlled	As Required
	If drain inlet / outlet / overflow has settled, cracked or moved, investigate and repair as appropriate	As Required

Table 3.2 SuDS Operation and Maintenance Requirements: Rain Gardens

Maintenance Schedule	Operation Maintenance Activities	Frequency
Regular Inspections	Inspect infiltration surfaces for silting and ponding, record de-watering time of the facility and assess standing water levels in underdrain (if appropriate) to determine if maintenance is necessary	Quarterly
	Check operation of underdrains by inspection of flows after rain	Annually
	Assess plants for disease infection, poor growth, invasive species etc and replace as necessary	Quarterly
	Inspect inlets and outlets for blockage	Quarterly
Regular Maintenance	Remove litter and surface debris and weeds	Quarterly (or more frequently for tidiness or aesthetic reasons)
	Replace any plants, to maintain planting density	As required
	Remove sediment, litter and debris build-up from around inlets or from forebays	Quarterly to biannually
Occasional	Infill any holes or scour in the filter medium, improve erosion protection if required	As required
Maintenance	Repair minor accumulations of silt by raking away surface mulch, scarifying surface of medium and replacing mulch	As required
Remedial Actions	Remove and replace filter medium and vegetation above	As required but likely to be > 20 years

 Table 3.3
 SuDS Operation and Maintenance Requirements: Vegetated Swales

Maintenance Schedule	Operation Maintenance Activities	Frequency	
Regular	Remove litter and debris	Monthly or as required	
Maintenance	Cut grass – to retain grass height within specified design range	Monthly (during growing season), or as required	
	Manage other vegetation and remove nuisance plants	Monthly at start, then as required	
	Inspect inlets, outlets and overflows for blockages, and clear if required	Monthly	
	Inspect infiltration surfaces for ponding, compaction, silt accumulation, record areas where water is ponding for > 48 hours	Monthly, or when required	
	Inspect vegetation coverage	Monthly for 6 months, quarterly for 2 years, then half yearly	
	Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies	Half yearly	
Occasional Maintenance	Reseed areas of poor vegetation growth, alter plant types to better suit conditions, if required	As required or if bare soil is exposed over 10% or more of the swale treatment area	
Remedial	Repair erosion or other damage by re-turfing or reseeding	As required	
Actions	Relevel uneven surfaces and reinstate design levels	As required	
	Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface	As required	
	Remove build-up of sediment on upstream gravel trench, flow spreader or at top of filter strip	As required	
	Remove and dispose of oils or petrol residues using safe standard practices	As required	

Table 3.4 SuDS Operation and Maintenance Requirements: Surface Water Drainage General

Maintenance Schedule	Operation Maintenance Activities	
Blockages	Inspect inlets, outlets and overflows for evidence of blockages and clear if required.	Monthly or as required
Inlet & Outlets	Inspect inlet / outlet structures and pipes for evidence of physical damage.	Monthly
Blockages / Structural Damage	Inspect SuDS surfaces, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage.	Monthly
Tree Roots	Remove or control tree roots where they are encroaching the sides of the drainage pipe network, using recommended methods (e.g., NJUG, 2007 or BS 3998:2010).	

4. WASTE MANAGEMENT

Waste obtained from undertaking the operation and maintenance procedures as outlined in Section 3 of this SuDS Management Plan may include; sediment, litter, green waste (vegetation) and other structural materials. All waste materials arising from operation, maintenance and remedial activities shall be classified as "controlled wastes" and their removal and disposal shall be in accordance with the latest waste management legislations and guidance and the protocols outlined in the CIRIA SuDS Manual C753 Chapters 32 and 33.

March 2025

5. PRICING SCHEDULE FOR MAINTENANCE CONTRACTOR

As per the guidance set out in the South Dublin Sustainable Drainage Explanatory Design & Evaluation Guide 2022, a pricing schedule has been developed that can be adapted for the future maintenance operation of the proposed SuDS Measures. A typical pricing schedule is outlined below in Table 5.1.

Table 5.1 Typical SuDS Maintenance Pricing Schedule

SuDS Maintenance Pricing Schedule Residential Development Long Mile Road, Dublin 12					
Maintenan	Maintenance Period:				
Item Ref	Item Description	Unit	Quantity	Amount €	
1	SuDS Maintenance Requirements – Blue / Green Roof Requirements as set out in Table 1 and the SuDS Layout Plan	item	-		
2	SuDS Maintenance Requirements – Raid Garden Requirements as set out in Table 2 and the SuDS Layout Plan	item	-		
3	SuDS Maintenance Requirements – Vegetated Swale Requirements as set out in Table 3 and the SuDS Layout Plan	item	-		
4	SuDS Maintenance Requirements – Surface Water Drainage General Requirements as set out in Table 4 and the SuDS Layout Plan	item	-		
5	Waste Management as a result of Completion of Items 1 to 4 above and in accordance with Section 4 of the SuDS Management Plan	item	-		
	Total Amount (exclusive of VAT)			€	
0					
Signature: Contractors Name and Address:					
Date:					

APPENDIX A SUDS LAYOUT PLAN

