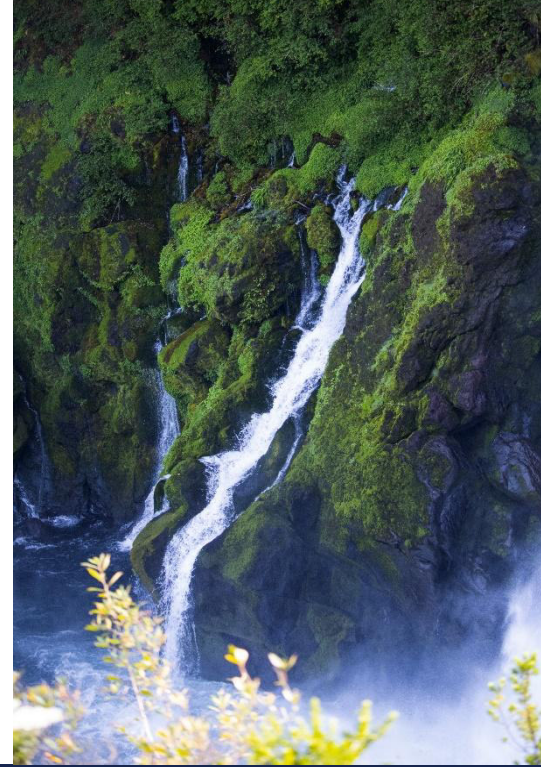




Flood Risk Assessment and Drainage Strategy

AEG10347_RH19_AshurstWood_07

Site Address: Land at Hounds Cottage
Wall Hill Road
Ashurst Wood
Sussex
RH19 3TQ

UK Experts in Flood Modelling, Flood Risk
Assessments, and Surface Water Drainage Strategies



Document Issue Record

Project: Flood Risk Assessment

Prepared for: Amanda Button

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Site Location: Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, Sussex, RH19 3TQ

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Summary

Development Description	Existing	Proposed
Development Type	A storage building and associated green space.	Erection of a detached two-storey, 3-bedroom house with single-storey detached garage and associated access and landscaping.
EA Vulnerability Classification	N/A ¹	More Vulnerable
Ground Levels	EA LiDAR data shows the ground elevation of the site varies between approximately 121.36m AOD (metres Above Ordnance Datum) and 128.64m AOD.	TBC - development to mimic existing ground levels
Level of Sleeping Accommodation	N/A ¹	Sleeping accommodation is proposed on the ground floor of the dwelling.
Surface Water Drainage	N/A ¹	A Surface Water Drainage Strategy has been prepared for the proposed development and is provided in Section 6 of this report.
Site Size	Approx. 1660m ²	No change
Risk to Development	Summary	Comment
EA Flood Zone	Flood Zone 1	
Flood Source	Pluvial	The site is located within Flood Zone 1 and is at low risk of flooding from all analysed sources.
SFRA Available	Level 1 Strategic Flood Risk Assessment (Mid Sussex District Council, 2024) and Strategic Flood Risk Assessment Level 1 (Mid Sussex District Council, 2015)	
Management Measures	Summary	Comment
Ground floor level above extreme flood levels	Yes	The site is located within Flood Zone 1 and is at low risk of flooding from all analysed sources.
Safe Access/Egress Route	Yes	Safe access and egress available.
Flood Resilient Design	N/A ¹	Not recommended. Low risk from all sources of flooding.
Site Drainage Plan	Yes	A Surface Water Drainage Strategy has been prepared for the proposed

Flood Warning and Evacuation Plan		development and is provided in Section 6 of this report.
	N/A ¹	Recommended that occupier monitor Met Office Weather Warnings for extreme weather events.
Offsite Impacts	Summary	Comment
Displacement of floodwater	No.	The site is located within Fluvial Flood Zone 1 and is at low risk of flooding from all analysed source, so the displacement of floodwater will be negligible.
Increase in surface run-off generation	Negligible - refer to Section 6.	A Surface Water Drainage Strategy has been prepared for the proposed development and is provided in Section 6 of this report.
Impact on hydraulic performance of channels	No.	The nearest watercourse is approx. 450m from the site.

¹ not required for this assessment

² data not available.

1. Introduction

- 1.1. Aegaea were commissioned by Amanda Button to undertake a Flood Risk Assessment (FRA) and Surface Water Drainage Strategy (SWDS) to facilitate a planning application for the proposed development. This FRA has been prepared in accordance with the requirements set out in the National Planning Policy Framework (NPPF) and the associated Planning Practice Guidance.
- 1.2. This FRA and SWDS is intended to support a full planning application and as such the level of detail included is commensurate and subject to the nature of the proposals.

Site Overview

- 1.3. The site of the proposed development is Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, Sussex, RH19 3TQ (Figure 1). The site currently consists of a storage building in the south of the site and associated green space across the remainder of the site.

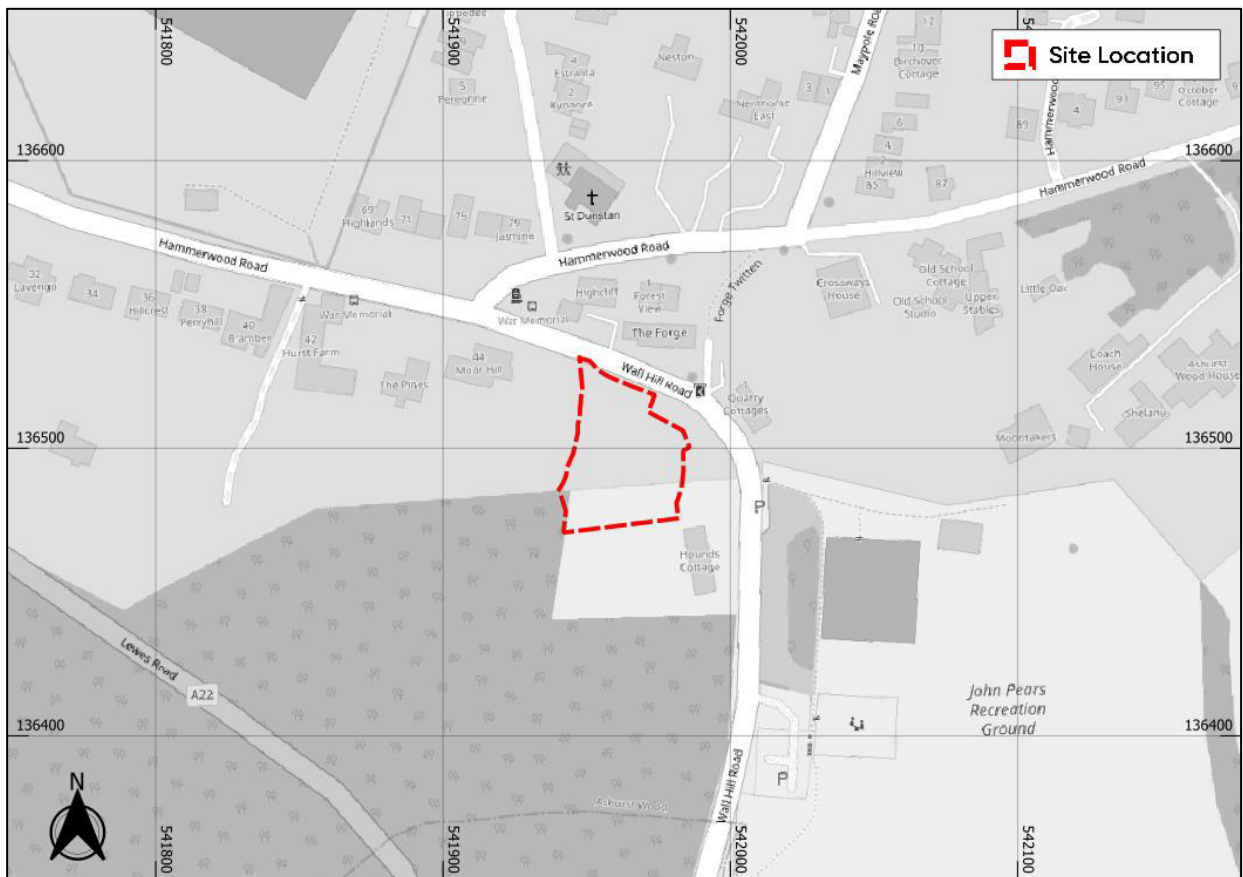


Figure 1: Site Location (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors)

- 1.4. The proposed development is for the demolition of existing storage building and erection of a detached two-storey, 3-bedroom house with single-storey detached garage and associated access and landscaping. Full development proposals are included in Appendix A.

- 1.5. In the absence of a topographical survey, Environment Agency (EA) Light Detection and Ranging (LiDAR) data Digital Terrain Model has been used to review the topography of the site. The EA LiDAR data shows the ground elevation of the site varies between approximately 121.36m AOD (metres Above Ordnance Datum) and 128.64m AOD. Analysis of topographic levels indicates that the site generally slopes with a fall to the south.

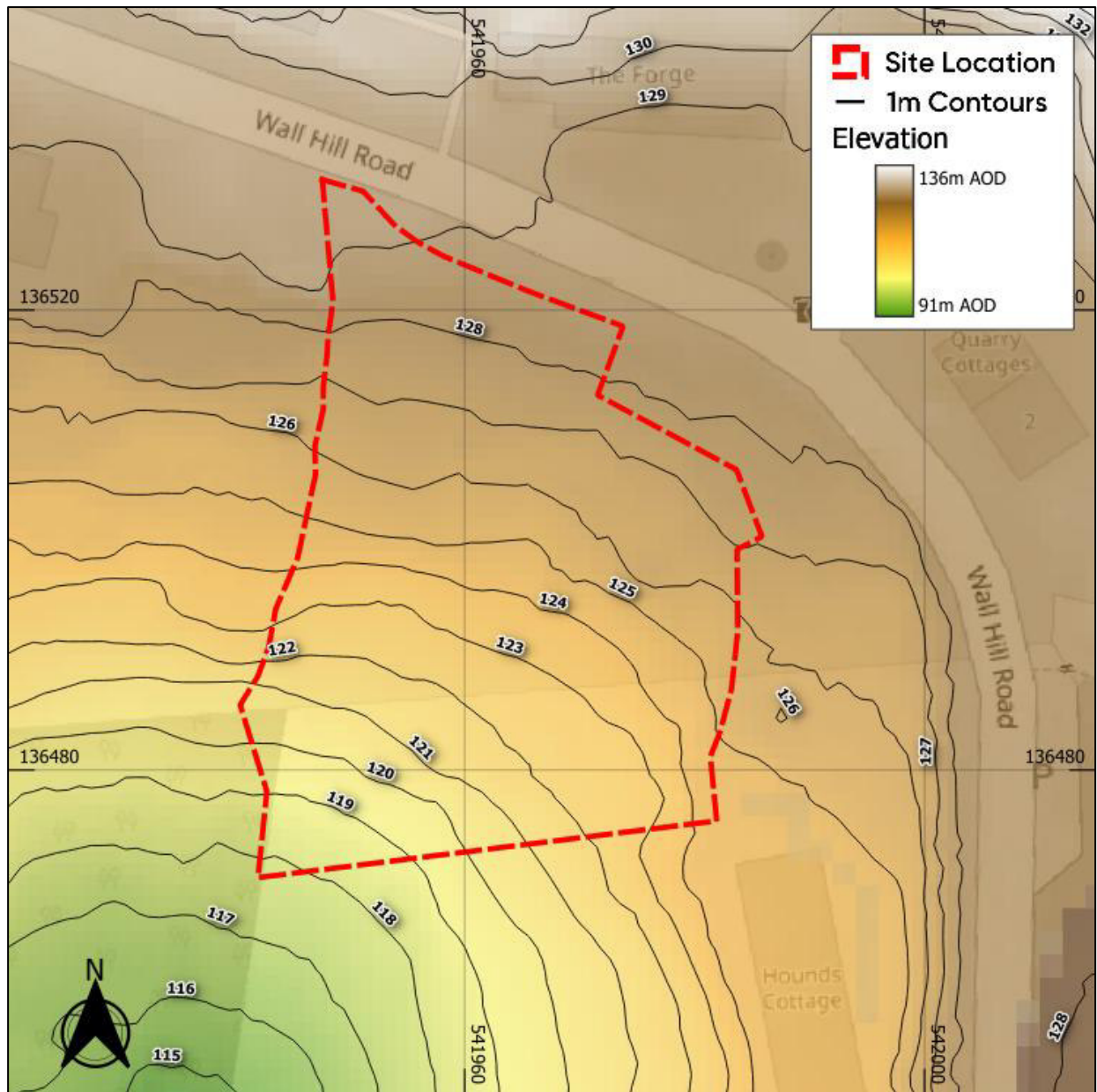


Figure 2: Site Topography (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors. Contains public sector information licensed under the Open Government Licence v3.0)

- 1.6. Mid Sussex District Council is the Local Planning Authority (LPA) for the site and West Sussex County Council is the designated Lead Local Flood Authority (LLFA). The site sits within the Environment Agency's Solent and South Downs region.

Planning Policy and Guidance

1.7. UK government planning guidance states¹ that an FRA is required for developments which are:

- *in flood zones 2 or 3 including minor development and change of use*
- *more than 1 hectare (ha) in flood zone 1*
- *less than 1 ha in flood zone 1, including a change of use in development type to a more vulnerable class (for example from commercial to residential), where they could be affected by sources of flooding other than rivers and the sea (for example surface water drains, reservoirs)*
- *in an area within flood zone 1 which has critical drainage problems as notified by the Environment Agency*

1.8. The site is located within Flood Zone 1; however, an area of low likelihood surface water flooding is identified in the southern part of the site. In accordance with UK Government planning guidance, a site-specific Flood Risk Assessment (FRA) is therefore required for the proposed development.

1.9. The planning application for the proposed development has already been validated by Mid Sussex District Council (ref. DM/26/0064, validated 13/01/2025). However, the Council's Drainage Team noted that the information submitted did not meet the minimum requirements at this stage of planning and provided the following comment:

"The application has gone through an initial review and the information submitted doesn't meet the minimum requirement. Given the scale of the proposed development and as the site is located within an area at risk from surface water flooding, a Flood Risk Assessment and Drainage Strategy is required at this stage of planning."

1.10. The objective of this FRA is to demonstrate that the proposals are acceptable in terms of flood risk. This report summarises the findings of the study and specifically addresses the following issues in the context of the current legislative regime:

- Fluvial/tidal flood risk
- Surface water flood risk
- Risk of flooding from other sources

¹ <https://www.gov.uk/guidance/flood-risk-assessment-for-planning-applications#when-you-need-an-assessment>

2. Planning Policy

- 2.1. Inappropriate development in a flood risk area could pose significant risk in terms of personal safety and damage to property for the occupiers of the development or for people elsewhere. The approach taken in the assessment of flood risk at the planning stage is set out in national, regional, and local planning policy and associated guidance. This section summarises the key policies and guidance relevant to the proposed development.

National Planning Policy Framework (NPPF)

- 2.2. The National Planning Policy Framework² (NPPF) (MHCLG, 2024) which includes UK Government policy on development and flood risk states:

170. Inappropriate development in areas at risk of flooding should be avoided by directing development away from areas at highest risk (whether existing or future). Where development is necessary in such areas, the development should be made safe for its lifetime without increasing flood risk elsewhere.

176. Applications for some minor development and changes of use should also not be subject to the sequential test, nor the exception test [set out below], but should still meet the requirements for site-specific flood risk assessments set out in footnote 63.

181. When determining any planning applications, local planning authorities should ensure that flood risk is not increased elsewhere. Where appropriate, applications should be supported by a site-specific flood-risk assessment. Development should only be allowed in areas at risk of flooding where, in the light of this assessment (and the sequential and exception tests, as applicable) it can be demonstrated that:

- a) within the site, the most vulnerable development is located in areas of lowest flood risk, unless there are overriding reasons to prefer a different location;*
- b) the development is appropriately flood resistant and resilient such that, in the event of a flood, it could be quickly brought back into use without significant refurbishment;*
- c) it incorporates sustainable drainage systems, unless there is clear evidence that this would be inappropriate;*
- d) any residual risk can be safely managed; and*
- e) safe access and escape routes are included where appropriate, as part of an agreed emergency plan.*

- 2.3. Footnote 63 of the NPPF states:

² <https://www.gov.uk/guidance/national-planning-policy-framework>, last updated Dec 2024

A site-specific flood risk assessment should be provided for all development in Flood Zones 2 and 3. In Flood Zone 1, an assessment should accompany all proposals involving: sites of 1 hectare or more; land which has been identified by the Environment Agency as having critical drainage problems; land identified in a strategic flood risk assessment as being at increased flood risk in future; or land that may be subject to other sources of flooding, where its development would introduce a more vulnerable use.

2.4. Flood Zones in England are defined as follows:

Table 1: Flood Zone Definitions

Flood Zone	Definition
Zone 1 Low Probability	Land having less than 1 in 1,000 annual probability of river or sea flooding (all land outside Zones 2 and 3).
Zone 2 Medium Probability	Land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding; or land having between a 1 in 200 and 1 in 1,000 annual probability of sea flooding.
Zone 3a High Probability	Land having a 1 in 100 or greater annual probability of river flooding; or Land having a 1 in 200 or greater annual probability of sea flooding.
Zone 3b The Functional Floodplain	This zone comprises land where water from rivers or the sea has to flow or be stored in times of flood. The identification of functional floodplain should take account of local circumstances and not be defined solely on rigid probability parameters. Functional floodplain will normally comprise: land having a 3.3% or greater annual probability of flooding, with any existing flood risk management infrastructure operating effectively; or land that is designed to flood (such as a flood attenuation scheme), even if it would only flood in more extreme events (such as 0.1% annual probability of flooding). Local planning authorities should identify in their Strategic Flood Risk Assessments areas of functional floodplain and its boundaries accordingly, in agreement with the Environment Agency. (Not separately distinguished from Zone 3a on the Flood Map)

- 2.5. An FRA should be appropriate to the scale, nature, and location of the development. It should identify and assess the risk from all sources of flooding to and from the development and demonstrate how any flood risks will be managed over the lifetime of the development.
- 2.6. An assessment of hydrological impacts should be undertaken, including to surface water runoff and impacts to drainage networks in order to demonstrate how flood risk to others will be managed following development and taking climate change into account.

National Standards for SuDS

2.7. Updates to the national planning policy have defined a framework for Sustainable Drainage Systems (SuDS). The new 'National Standards for SuDS'³ was published on June 19th, 2025, and is used to inform this drainage strategy. There are seven key standards as follows;

- **Standard 1 Runoff Destination:** The drainage hierarchy now prioritises water re-use followed by infiltration, before discharging to watercourses and sewers.
- **Standard 2 Management of Everyday Rainfall (interception):** The design must ensure that the first 5mm of rainfall from any event is managed within the site and does not leave the boundary.
- **Standard 3 Management of Extreme Rainfall and Flooding:** The SuDS must be designed to manage runoff from all extreme rainfall events, up to and including the 1 in 100-year return period (including an allowance for climate change).
- **Standard 4 Water Quality:** The system must be designed to prevent or mitigate the risk of surface water runoff pollution using SuDS management trains.
- **Standard 5 Amenity:** The SuDS should be designed to improve the aesthetic value of the development, demonstrating multifunctional solutions where feasible.
- **Standard 6 Biodiversity:** The system should be designed to promote biodiversity using above ground SuDS where feasible.
- **Standard 7 Maintenance:** A clear plan must be provided for the long-term operation and maintenance of the SuDS to ensure it remains effective for the lifetime of the development.

Local Plan

- 2.8. The Local Plan prepared by the Local Planning Authority, Mid Sussex District Council, sets out the policies for development in the local area.
- 2.9. Policy DPS4.1 Flood Risk and Sustainable Drainage: Flood Risk outlines the requirements for new development within the area. It states:

Proposals for development will need to follow a sequential risk-based approach directing development away from areas at highest risk (whether existing or future risk), ensure development is safe across its lifetime and not increase the risk of flooding elsewhere.

All development should consider flood risk in line with national guidance at the time of assessment, including the need to consider and assess flood risk from all sources consistently.

³ <https://www.gov.uk/government/publications/national-standards-for-sustainable-drainage-systems/national-standards-for-sustainable-drainage-systems-suds>

Environment Agency or site-specific flood mapping and the District Council's Strategic Flood Risk Assessment (SFRA) should be used to identify areas at present and future flood risk from a range of sources including fluvial (rivers and streams), pluvial (surface water), groundwater, infrastructure and reservoirs. The cumulative impacts of all sources of flooding should be considered.

Where possible, development proposals should reduce overall flood risk. Particular attention will be paid to those areas of the district that have experienced flooding in the past. Development proposals must, where required by national policy, be accompanied by a site-specific flood risk assessment.

Development in areas of flood risk will, where relevant, be required to meet national sequential and exceptional tests.

Development classified as 'Highly vulnerable' will not be permitted within areas at 1:100 or greater flood extents now or in the future (flood zone 3a, 3b and equivalent).

Development classified as 'more vulnerable' will not be permitted within areas of 1:30 flood extents now or in the future (flood zone 3b and equivalent).

Where flood management and mitigations are proposed to be utilised within a development, soft flood management methods are preferred over hard engineered solutions.

Sequential and Exception Tests

2.10. The Sequential and Exception Tests are applied in specific cases defined by UK Government policy. Their purpose is to drive development to areas of low flood risk and to support developments which improve flood risk for developments in areas at risk of flooding.

2.11. Paragraph 175 of the NPPF states:

The sequential test should be used in areas known to be at risk now or in the future from any form of flooding, except in situations where a site-specific flood risk assessment demonstrates that no built development within the site boundary, including access or escape routes, land raising or other potentially vulnerable elements, would be located on an area that would be at risk of flooding from any source, now and in the future (having regard to potential changes in flood risk).

2.12. Based on the analysis conducted in this FRA, the proposed development is situated within Flood Zone 1 and outside all likelihood categories of experiencing surface water flooding even when considering the effects of climate change. In addition, dry access / egress remains possible for residents on-site.

2.13. Thus, it is considered that a Sequential Test is not required for the proposed development in line with paragraph 175 of the NPPF.

Exception Test

- 2.14. The Exception Test is applied to sites based on the Flood Zone and the nature of the development. As the proposed development consists of a residential dwelling it would be classed as 'More Vulnerable' in line with government development use classes.
- 2.15. The Flood Risk Vulnerability Classification table⁴ provided below in
- 2.16.
- 2.17. Table 2 shows which vulnerabilities are appropriate in each Flood Zone.
- 2.18. The proposed development sits within Flood Zone 1 and the vulnerability of the proposed development is 'More Vulnerable'. Table 2 shows Flood Zone 1 is an appropriate location for 'More Vulnerable' uses without the need for an Exception Test.

Table 2: Flood risk vulnerability and flood zone 'incompatibility'

Flood Zones	Flood Risk Vulnerability Classification				
	Essential Infrastructure	Highly Vulnerable	More Vulnerable	Less Vulnerable	Water Compatible
Zone 1	✓	✓	✓	✓	✓
Zone 2	✓	Exception Test required	✓	✓	✓
Zone 3a	Exception Test required	x	Exception Test required	✓	✓
Zone 3b	Exception Test required	x	x	x	✓

Summary

- 2.19. This flood risk assessment has been prepared with due consideration to the above local and national policy.

⁴ <https://www.gov.uk/guidance/flood-risk-and-coastal-change#table2>

3. Document Review

Documents and Online Mapping

- 3.1. Local Governments and Lead Local Flood Authorities provide documents which contain data and policies on flood risk and new development in their areas. These documents are introduced and briefly summarised below. For the purposes of this FRA, these documents have been reviewed for relevant information and any relevant data is discussed within the appropriate sub heading of this report.
- 3.2. The following sources of information have been reviewed for this assessment:
- Flood Map for Planning on the Environment Agency website <https://flood-map-for-planning.service.gov.uk/>
 - Long Term Flood Risk Information on the Environment Agency website <https://www.gov.uk/check-long-term-flood-risk>
 - National Planning Policy Framework (NPPF) (Ministry of Housing, Communities and Local Government, 2024)
 - Planning Practice Guidance - Flood Risk and Coastal Change (Ministry of Housing, Communities and Local Government, 2022)
 - Geoindex Onshore (British Geological Survey, 2024)
 - LandIS Soilscales Viewer (2026)⁵
 - Mid Sussex District Plan 2021 - 2039 (Submission Draft) Regulation 19 (Mid Sussex District Council, emerging 2024)⁶ and Mid Sussex District Plan 2014-2031 (Mid Sussex District Council, 2018)⁷
 - Preliminary Flood Risk Assessment Addendum (West Sussex County Council, 2017)⁸ and West Sussex Preliminary Flood Risk Assessment (West Sussex County Council, 2011)⁹
 - Level 1 Strategic Flood Risk Assessment (Mid Sussex District Council, 2024)¹⁰

⁵ <https://www.landis.org.uk/soilscales/>

⁶ <https://www.midsussex.gov.uk/media/kx0dce50/district-plan-2021-2039-regulation-19.pdf>

⁷ <https://www.midsussex.gov.uk/media/1599/mid-sussex-district-plan-2014-2031-adopted-march-2018.pdf>

⁸ https://assets.publishing.service.gov.uk/media/5acc9b9140f0b64ff0e694b0/PFRA_West_Sussex_County_Council_2017.pdf

⁹ https://www.westsussex.gov.uk/media/1626/west_sussex_pfra.pdf

¹⁰ <https://www.midsussex.gov.uk/media/kj0b04ug/env11-strategic-flood-risk-assessment-level-1-2024.pdf>

- Local Flood Risk Management Strategy: 2025 - 2030 (West Sussex County Council, 2025)¹¹ and West Sussex Local Flood Risk Management Strategy (2013-2018) (West Sussex County Council, 2014)¹²
- CIRIA C753 The SuDS Manual (2015)

Preliminary Flood Risk Assessment (PFRA)

- 3.3. The PFRA and its addendum, published in 2011 and 2017, is a high-level appraisal of flood risk across Lead Local Flood Authority West Sussex County Council. The flood risk from all sources, including fluvial, surface water, groundwater, and surcharged sewers is evaluated. It is the basis upon which the Local Flood Risk Management Strategy is produced.
- 3.4. The PFRA and addendum summarises historical flood incidents in West Sussex County Council. The site is not recorded as having been affected by any flood event.

Strategic Flood Risk Assessment (SFRA)

- 3.5. The SFRA, published in 2024, provides the evidence base for the Local Planning Authority Mid Sussex District Council Local Plan and guidance for consideration when determining planning applications. The SFRA seeks to place new development into areas of lower flood risk taking into account current flood risk, future flood risk, and the effect a proposed development would have on the risk of flooding.
- 3.6. The SFRA mapping provided by Mid Sussex District Council has been used throughout production of this report as a source of information, particularly pertaining to historical flood incidents.

Local Flood Risk Management Strategy (LFRMS)

- 3.7. The Local Flood Risk Management Strategy sets out roles and responsibilities for flood risk management, assesses the risk of flooding in the area, where funding can be found to manage flood risk, and the policies, objectives, and actions of the Lead Local Flood Authority.
- 3.8. The West Sussex County Council LFRMS is used within this report to identify any flood management infrastructure and historical incidences of flooding.

CIRIA C753 The SuDS Manual

- 3.9. The CIRIA SuDS manual has been used throughout this SWDS in order to determine an appropriate strategy for the proposed development. This guidance covers the planning, design, construction and maintenance of Sustainable Drainage Systems (SuDS) to assist with their effective implementation within both new and existing developments. It looks at how to maximise amenity and biodiversity benefits and deliver the key objectives of managing flood risk and water

¹¹ https://westsussex.moderngov.co.uk/documents/s53631/Item_No_9_-_Appendix_1_-_West_Sussex_Local_Flood_Risk_Mgt_Strategy_2025-2030_excluding_appendices.pdf

¹² https://www.westsussex.gov.uk/media/zxfdrox1/westsussex_lfrms.pdf

quality. There is also supporting information covering topics such as materials, landscape design, maintenance, community engagement and costs and benefits.

4. Sources of Flood Risk

Fluvial

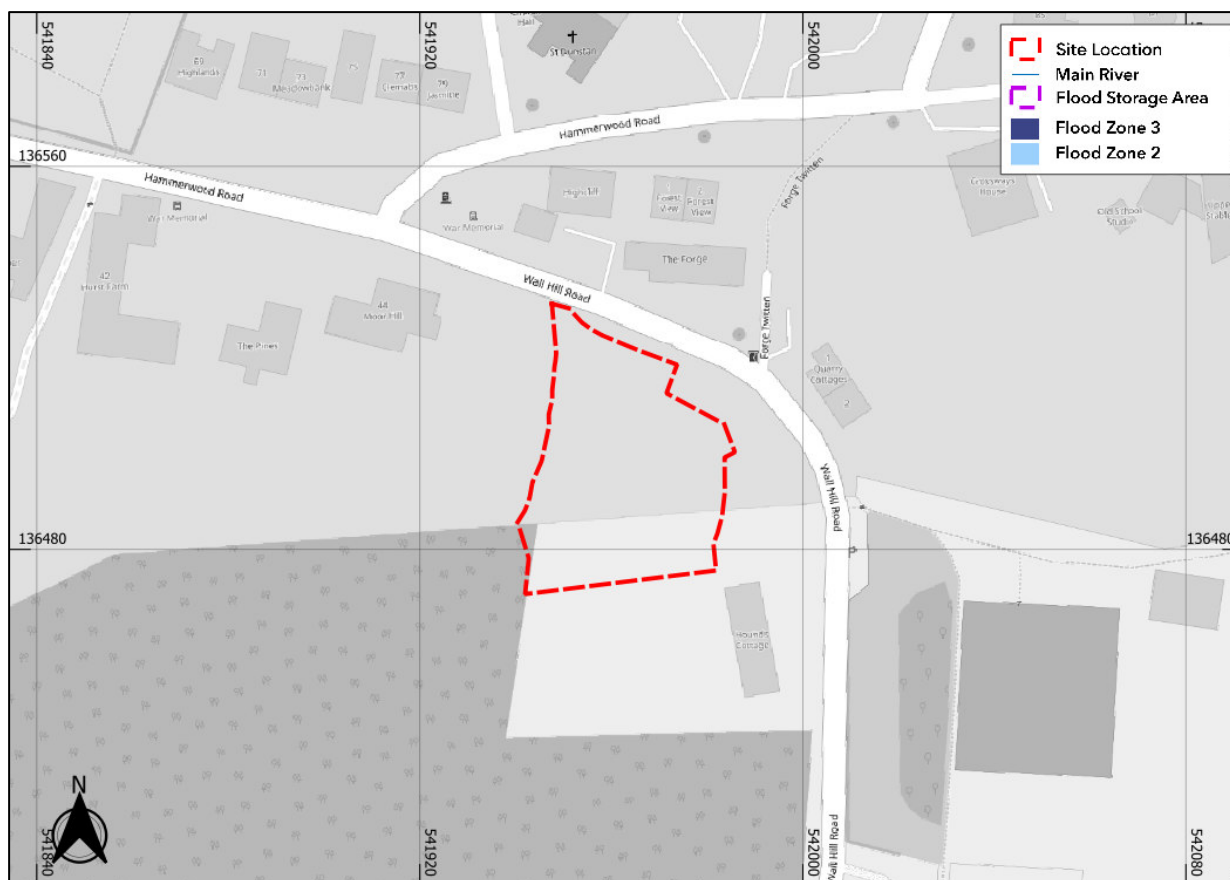
- 4.1. Flooding from watercourses arises when flows exceed the capacity of the channel, or where a restrictive structure is encountered, resulting in water overtopping the banks into the floodplain.

Main Rivers and Ordinary Watercourses

- 4.2. There are no main rivers in the vicinity of the site. The closest Main River to the site is an unnamed tributary of the River Medway, which is located approximately 450m south west of the site. There are no Ordinary Watercourses within 1km of the site according to OS mapping.

EA Flood Map for Planning

- 4.3. According to the EA Flood Map for Planning, the site is located within Flood Zone 1 (Figure 3). Flood Zone 1 denotes a risk of flooding from fluvial sources of less than 1 in 1000 (0.1%) annual probability.



Historical Fluvial Flooding

- 4.4. The EA Recorded Flood Events and Historical Flood Outlines datasets show that the site has not been historically impacted by flooding (Figure 4).

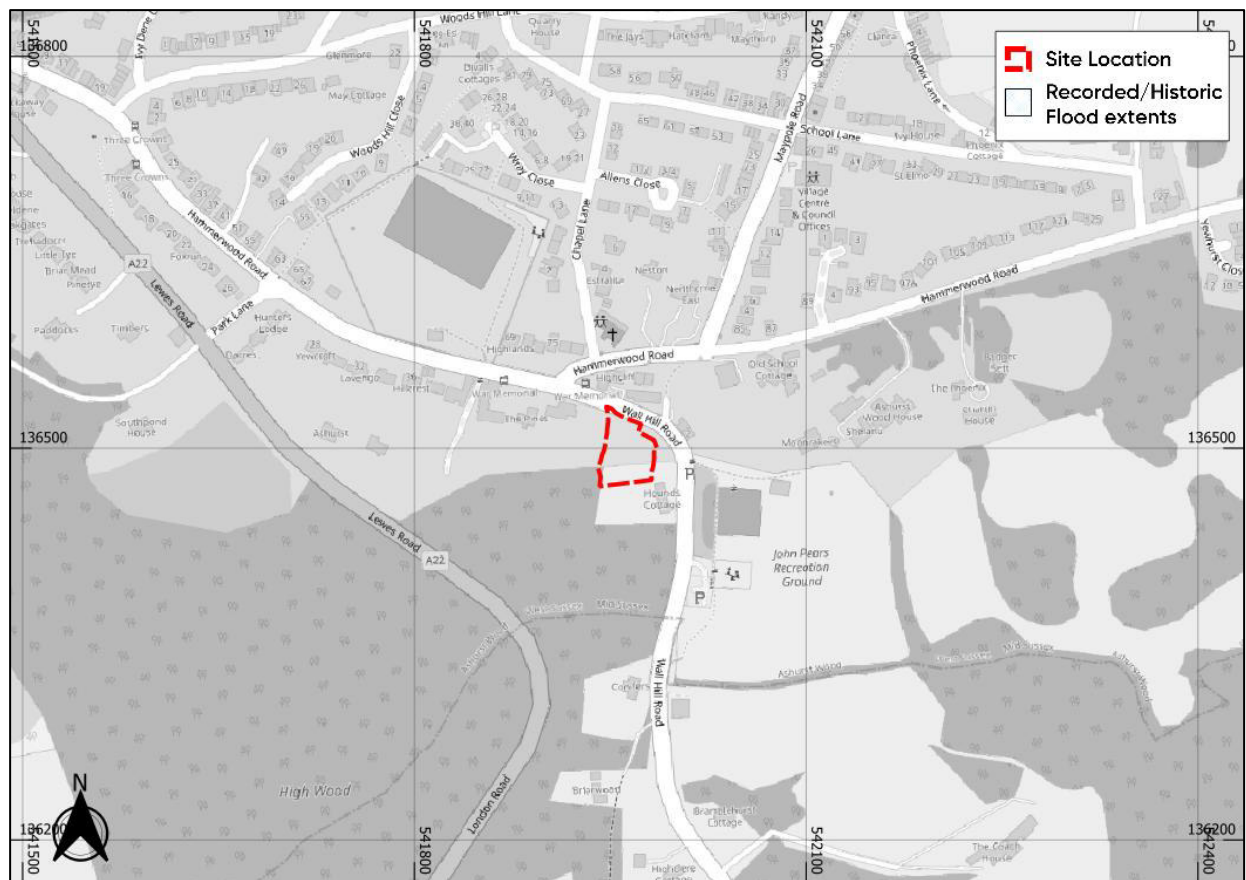


Figure 4: EA Historic Flood Mapping (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors. Contains public sector information licensed under the Open Government Licence v3.0)

- 4.5. Therefore, based on the information reviewed, the site is considered to be at low risk of fluvial flooding.

Tidal

- 4.6. Tidal flooding occurs when a high tide and high winds combine to elevate sea levels. An area behind coastal flood defences can still flood if waves overtop the defences or break through them. Tidal flooding can also occur a long way from the coast by raising river levels. Water may overtop the river bank or river defences when tide levels are high.
- 4.7. The site is a significant distance from any tidal source and above the anticipated extreme tidal levels, even when considering the impacts of climate change.
- 4.8. The risk of flooding from tidal sources is therefore considered to be low.

Canals

- 4.9. The Canal and River Trust (CRT) generally maintains canal levels using reservoirs, feeders, and boreholes and manages water levels by transferring it within the canal system.

- 4.10. According to CRT¹³ mapping, there are no canals within 1km of the site.
- 4.11. The risk of flooding to this site from canals is considered to be low.

Pluvial

- 4.12. Pluvial flooding can occur during prolonged or intense storm events when the infiltration potential of soils, or the capacity of drainage infrastructure is overwhelmed leading to the accumulation of surface water and the generation of overland flow routes.

MSDC SFRA (2024) Surface Water Mapping

- 4.13. Review of the 2024 Mid Sussex District Council (MSDC) SFRA mapping indicates that an area of 'low risk' of flooding from surface water encroaches into the south-eastern boundary of the site (Figure 5). Thus, it is considered that this is the 'area at risk from surface water flooding' as details in correspondence with MSDC.

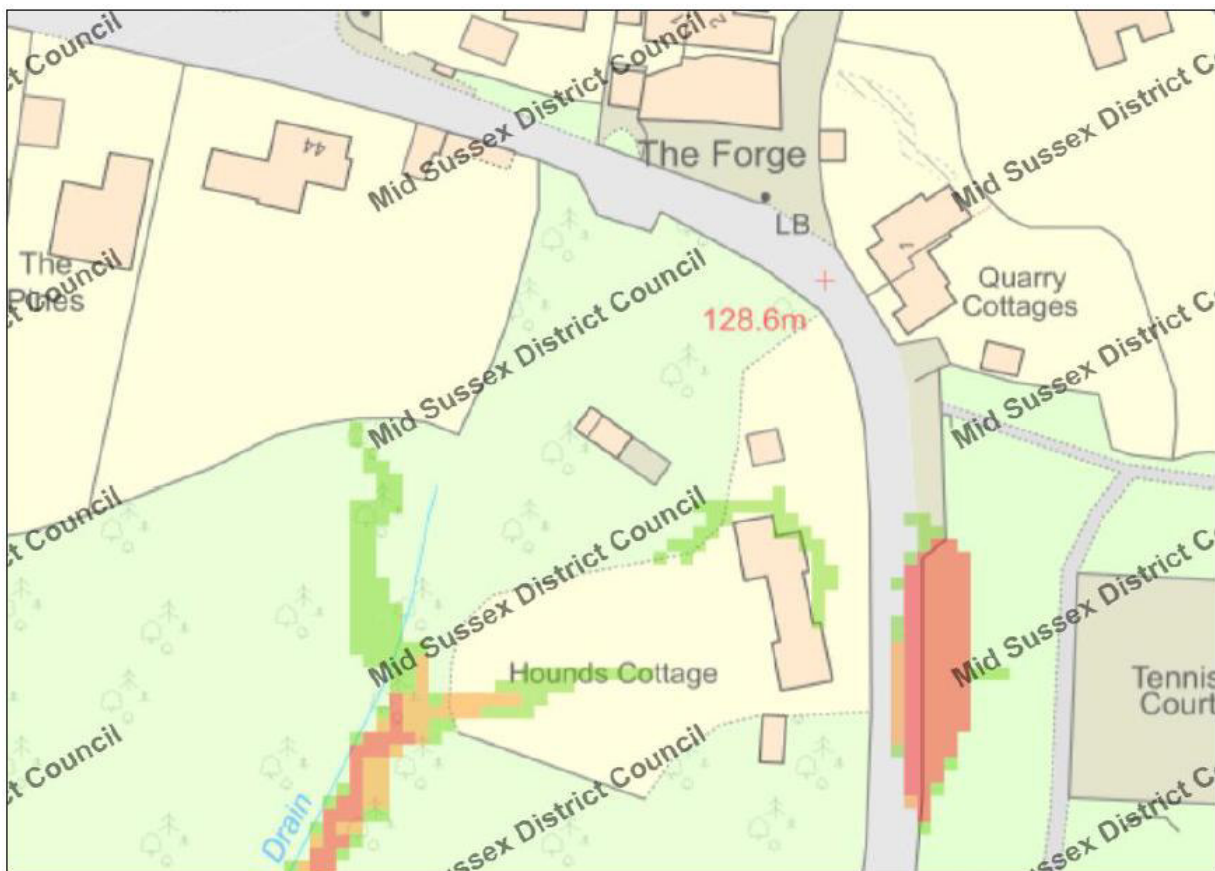


Figure 5: MSDC SFRA (2024) Climate Change Surface Water Flood Risk. The green extents represent low risk, amber represents moderate risk, and red represents high risk from surface water flooding.

¹³ <https://canalrivertrust.org.uk/canals-and-rivers>

- 4.14. The National Flood Risk Assessment data (NaFRA2) has been assessed below to further understand the surface water flood risk to the site.

National Flood Risk Assessment Data

- 4.15. NaFRA2 has updated the Risk of Flooding from Surface Water (RoFSW) products which show the chance of flooding from surface water to areas of land.
- 4.16. The RoFSW products are an assessment of where surface water flooding may occur when rainwater does not drain away through the normal drainage systems or soak into the ground but lies on or flows over the ground instead. It includes information about flooding extents and depths including the potential impact of climate change on flood risk, based on the latest UK Climate Projections (UKCP18).
- 4.17. Risk is displayed as one of three likelihood categories:
- High - greater than or equal to 1 in 30 (3.3%) chance of flooding in any year.
 - Medium – Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance of flooding in any given year.
 - Low – Less than 1 in 100 (1%) but greater than or equal to 1 in 1000 (0.1%) chance of flooding in any given year.
- 4.18. The RoFSW depth mapping shows the annual chance of flooding (based on the three risk categories listed above) beyond a specific depth, for depths at the following intervals from 20cm to 120cm:
- 0.2m, 0.3m, 0.6m, 0.9m, 1.2m
- 4.19. As well as present day risk of flooding from surface water, climate change scenarios have been produced to indicate the predicted impacts of climate change on future flood risk. The climate change allowances are based on the latest UK Climate Projections (UKCP18) from the Met Office, using the Representative Concentration Pathway (RCP) 8.5. A near-term epoch (2040 – 2060 “2050s” epoch) and central allowances are being used initially, to support short and medium-term decisions informed by the highest flood likelihood projections.
- 4.20. Review of present day and climate change extents are similar; thus, the 'worst-case' scenario climate change extents and modelling have been assessed below.

RoFSW Analysis

- 4.21. Examination of the EA's climate change RoFSW mapping indicates that the majority of the site and the entirety of the proposed development is located outside of the high, medium and low likelihood surface water flood extents (Figure 5).
- 4.22. Southern areas of the wider site are within an area with a low likelihood of flooding from surface water, this area does not extend into the proposed development outline. Wall Hill Road, to the north of the site, is also outside of all high, medium, and low likelihood extents for flooding.

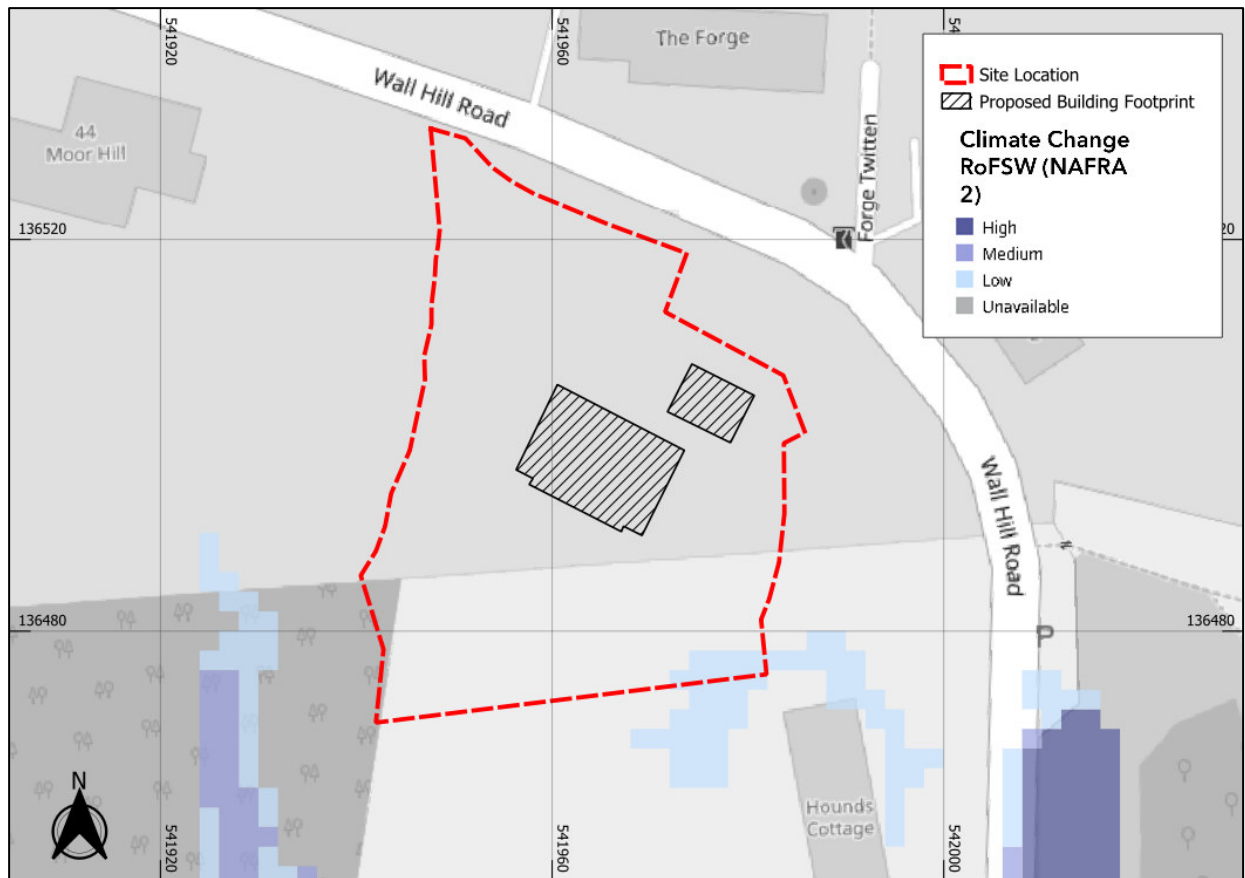


Figure 5: EA Surface Water Flood Risk Mapping – Climate Change (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors. Contains public sector information licensed under the Open Government Licence v3.0)

- 4.23. Analysis of the EA's RoFSW depth mapping for the 0.2m threshold indicates that the entire site and proposed development are located outside the high, medium and low likelihood extents for surface water flood depths exceeding 0.2m (Figure 6).

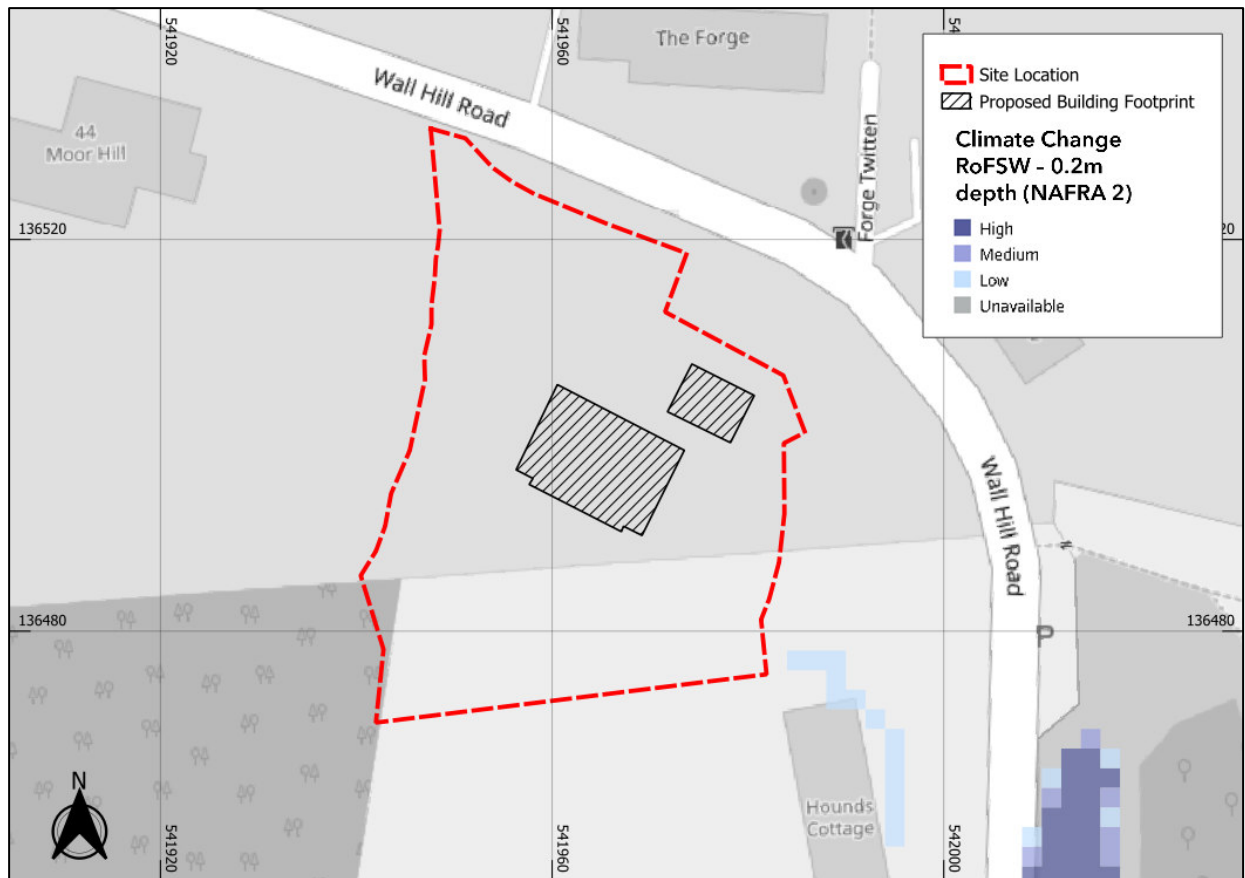


Figure 6: EA Surface Water Flood Risk Mapping – Climate Change 0.2m Interval (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors. Contains public sector information licensed under the Open Government Licence v3.0)

- 4.24. Based on the information reviewed, the site is considered to be at low risk of flooding from surface water.

Reservoirs

- 4.25. Large waterbodies or reservoirs that have walls built above the surrounding ground level pose a risk of flooding. Walls could fail due to old age, accident, or because excess flood water has been added to the reservoir. Although a breach is unlikely the consequences would be significant, leading to rapid inundation of the downstream floodplain.
- 4.26. According to the EA's Flood Risk from Reservoirs mapping the site is outside modelled flood extents in the event of reservoir flooding (Figure 7).

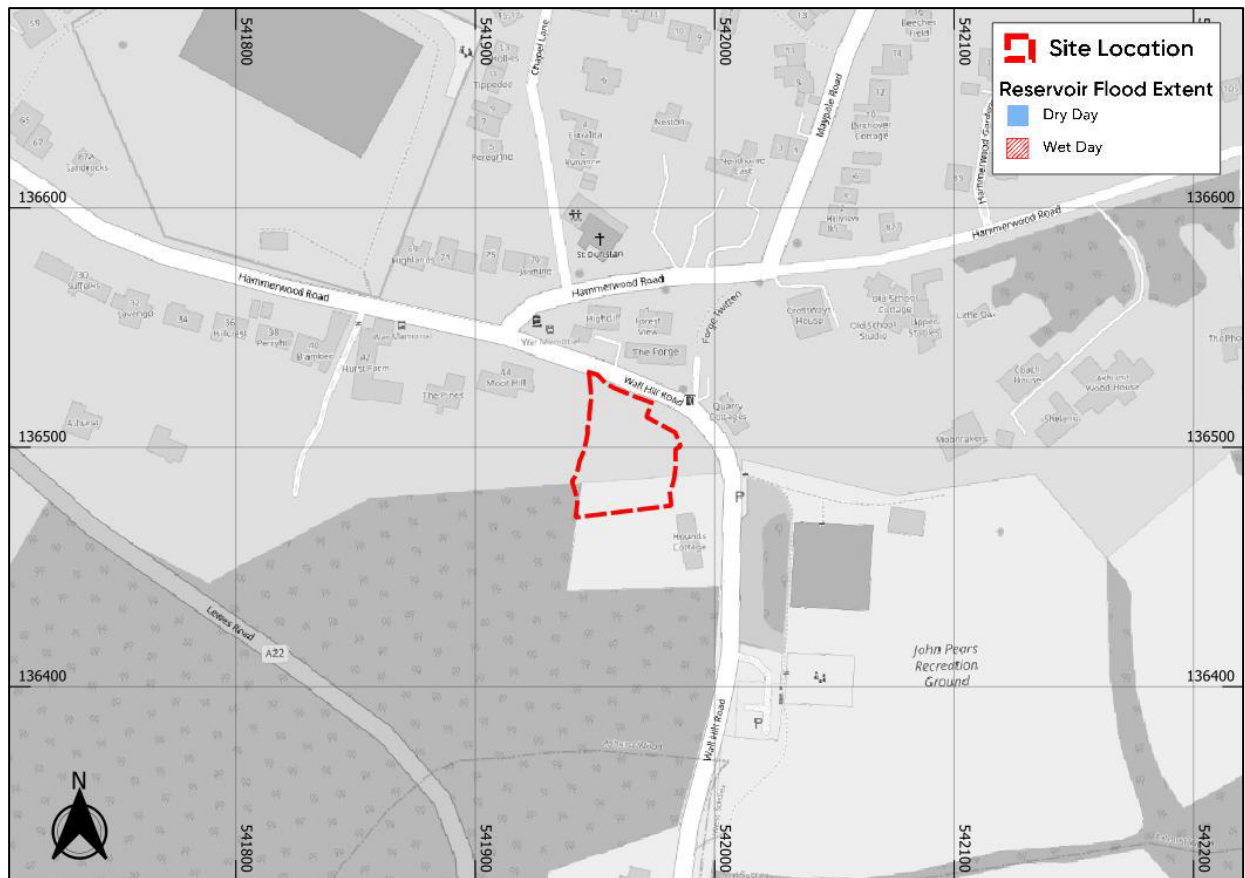


Figure 7: EA Reservoir Flood Risk Mapping (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). ©<https://www.openstreetmap.org> and contributors. Contains public sector information licensed under the Open Government Licence v3.0)

- 4.27. The site has not been flagged as being at risk of flooding following a reservoir failure.

Groundwater

- 4.28. Groundwater flooding occurs in areas where underlying geology is permeable and water can rise within the strata sufficiently to breach the surface.
- 4.29. The British Geological Survey's (BGS) mapping shows no superficial deposits underlying the site. The bedrock geology underlying the site is defined as Lower Tunbridge Wells Sand, comprising sandstone, siltstone and mudstone. There are no historical BGS boreholes within 1km of the site.
- 4.30. The 2024 SFRA includes groundwater flood risk mapping derived from the GeoSmart Information Ltd Groundwater Flood Risk Map (GWfPM v2.3). This dataset identifies areas where groundwater flooding could occur during periods of prolonged rainfall when groundwater levels rise to, or above, ground level. The mapping highlights areas considered to be at high risk of groundwater flooding during a 1 in 100 year (1% AEP) event and identifies the 20 areas within the district considered most susceptible to groundwater flooding.

- 4.31. According to this mapping, the site is not located within an area identified as being at high risk of groundwater flooding during the 1 in 100 year event, nor is it within one of the 20 areas identified as most susceptible to groundwater flooding (Figure 8).

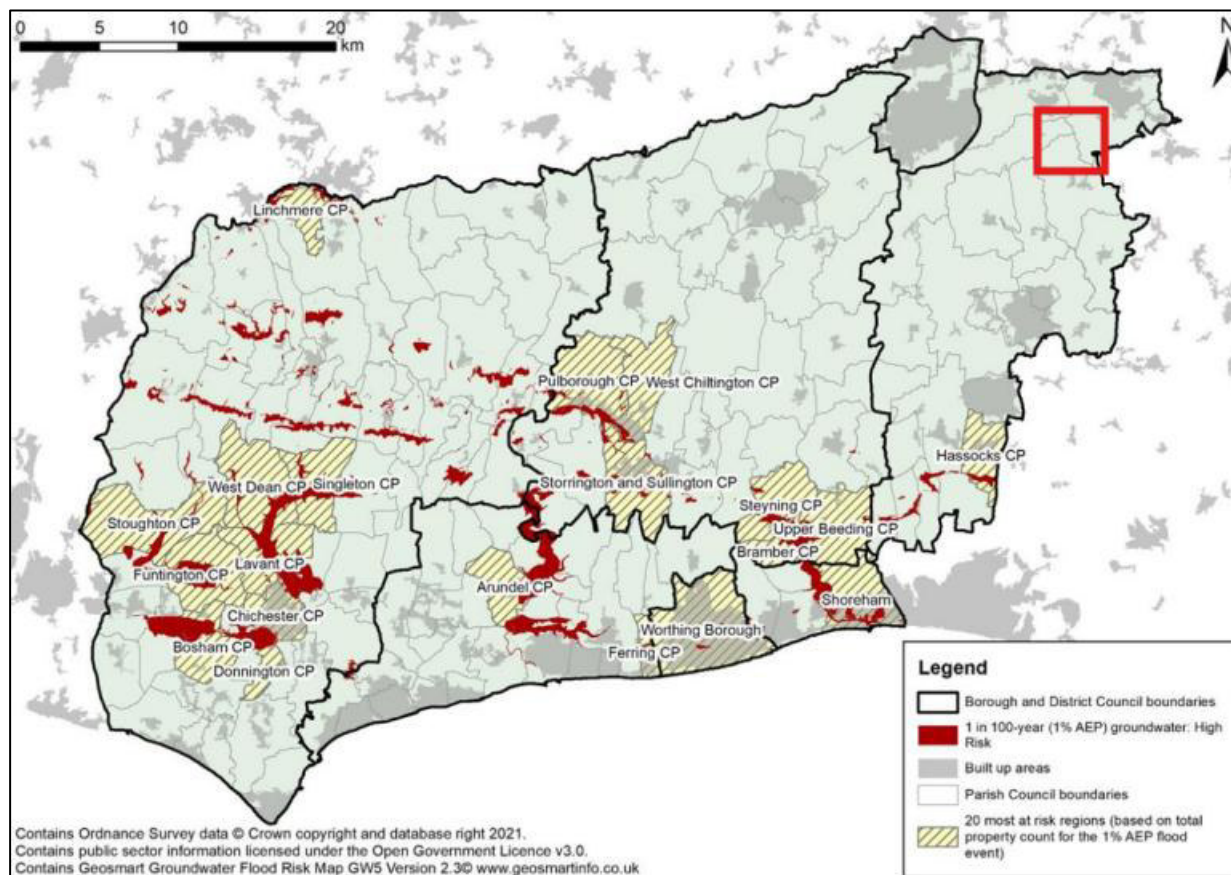


Figure 8: Risk from groundwater flooding based on the Geosmart Groundwater Flood Risk MAP. The site location is shown by the red square.

- 4.32. As the development proposals do not include any proposed basements, which are typically more vulnerable to groundwater ingress and based on the 2024 SFRA mapping reviewed, the risk from groundwater to the development is considered to be low.

Sewers

- 4.33. Foul or surface water sewers can be a cause of flooding if the drainage network becomes overwhelmed, either by blockage or due to local development beyond the designed capabilities of the drainage system.
- 4.34. The 2024 SFRA identifies historic sewer flooding incidents across the district using DG5 data provided by Southern Water and Thames Water, which distinguishes between internal and external sewer flooding incidents. However, the SFRA presents this information at a district-wide level and does not provide postcode or site-specific incident data.
- 4.35. According to the mapped DG5 internal and external sewer flooding extents within the SFRA, the site is located within an area where historic external sewer flooding has been recorded (Figure 9).

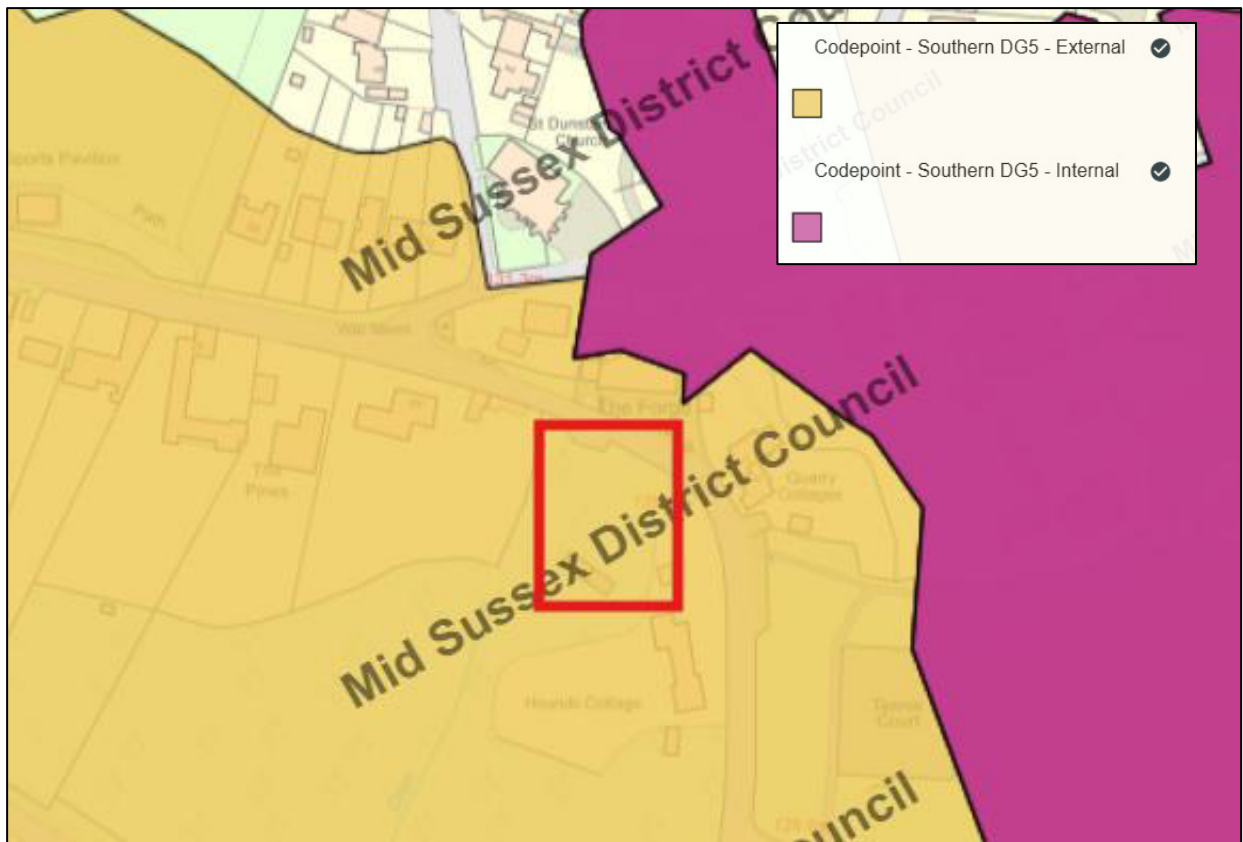


Figure 9: External and internal sewer flood records taken from the 2024 FRA. The site location is shown by the red square.

- 4.36. The DG5 data within the SFRA mapping does not identify the exact locations of recorded incidents, only up to 4 digit postcode areas. Therefore, there is no evidence within the SFRA to suggest that the site has been directly impacted by historic sewer flooding.
- 4.37. Furthermore, considering the site is predominantly greenfield, it is thought there is no associated sewer infrastructure on site.
- 4.38. Based on the information reviewed, the site is considered to be at low risk of flooding from sewers.

5. Flood Risk Mitigation

Fluvial, Tidal, Pluvial, Canals, Reservoirs, Groundwater, and Sewers

- 5.1. Flood risk from all analysed sources of flooding is deemed to be low, therefore mitigation is not required.

Increase to Flood Risk Elsewhere

- 5.2. The proposed development is for the demolition of the existing storage building and erection of a detached two-storey, 3-bedroom house with single-storey detached garage and associated access and landscaping. The site is located within Flood Zone 1 and is also at low risk from other sources of flooding, therefore the development would not increase flood risk elsewhere through floodwater displacement.
- 5.3. In addition, a SWDS has been prepared alongside this FRA and is presented in Section 6 of this report. The strategy has been designed in accordance with national and local planning policy and will manage surface water runoff generated by the proposed development.
- 5.4. The drainage proposals will ensure that rainfall events up to and including the 1 in 100 year plus 40% climate change storm event can be safely managed on site without increasing flood risk elsewhere. Surface water runoff from the development will therefore be controlled and attenuated where necessary to ensure that post-development runoff rates do not exceed existing greenfield runoff rates.

Flood Warnings

- 5.5. The site is not in an area where the EA provide specific flood alerts and warnings. As a further precaution to reduce risk, residents of the dwellings should monitor Met Office Weather Warnings to be prepared for extreme weather events as the site is not in an area where the EA provide specific flood alerts and warnings.
- 5.6. The Met Office issues weather warnings up to 5 days in advance, through the national Severe Weather Warning Service, when severe weather has the potential to bring impacts to the UK. It is also possible to stay up to date with weather warnings through the Met Office app (available on both Apple or Android devices), social media e.g. X and Facebook or email alerts

Safe Access and Egress

- 5.7. Review of the EA RoFSW (climate change scenario) indicates that the majority of Wall Hill Road lies outside areas with a high, medium, and low likelihood of hazard ratings exceeding 0.75, which correspond to the 'danger for some' classification (Figure 10). Hazard ratings under 0.75 are generally considered 'safe hazard'.

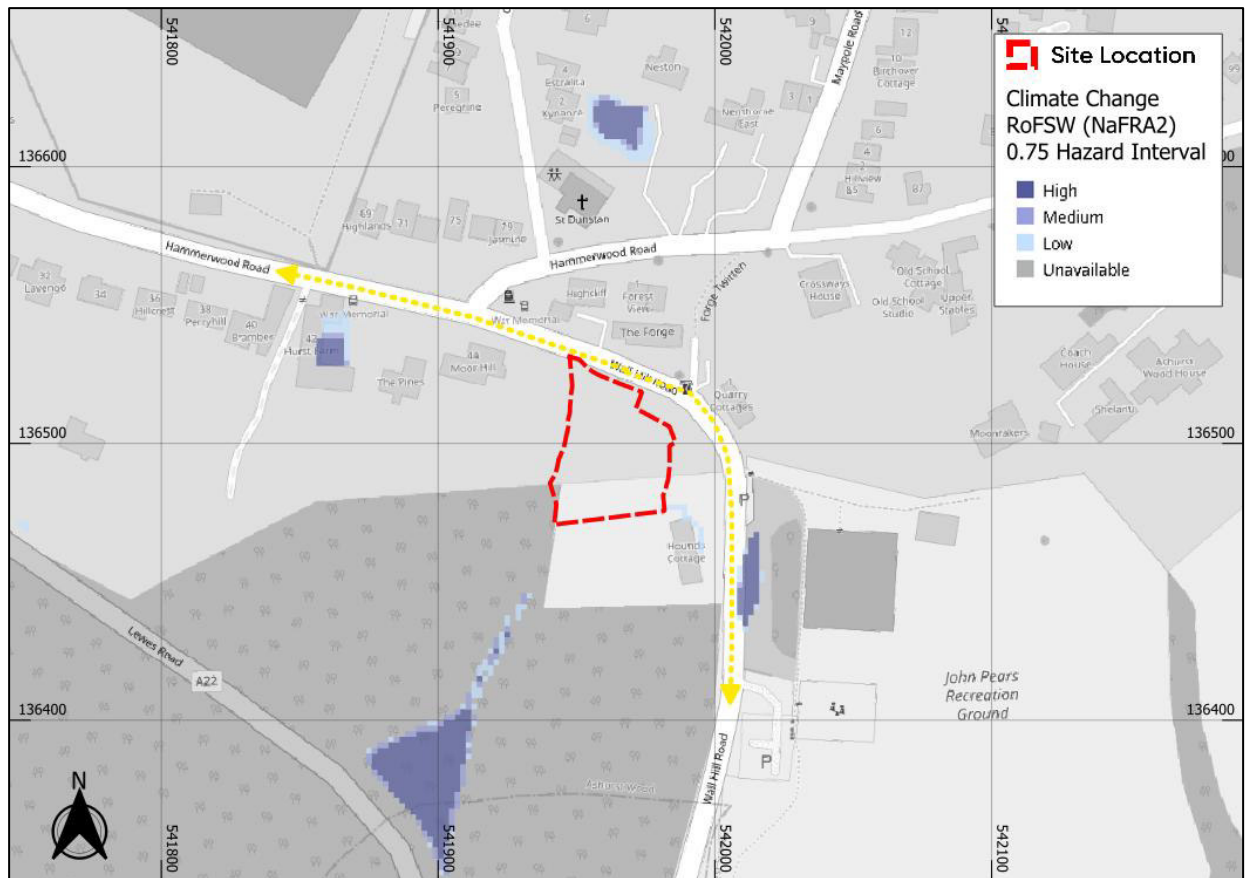


Figure 10: EA RoFSW (NaFRA2) >0.75 flood hazard interval extents (Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). ©<https://www.openstreetmap.org> and contributors. Contains public sector information licensed under the Open Government Licence v3.0)

- 5.8. On this basis, safe access and egress to and from the site is considered achievable via Wall Hill Road, heading in a westerly or southerly direction.

6. Surface Water Drainage Strategy

Surface Water Drainage Hierarchy

- 6.1. In accordance with the SuDS management train approach, the use of various SuDS measures to reduce and control surface water flows have been considered in detail for the development in Table 3 below.
- 6.2. The management of surface water has been considered in respect to the SuDS hierarchy below, as detailed in the Statutory Guidance National standards for sustainable drainage systems (SuDS) (2025).

Table 3: SuDS Drainage Hierarchy

SuDS Drainage Hierarchy				
			Suitability	Comment
	1.	Collection for non-potable use	✓	It is recommended that in addition to the attenuation proposed, water butts are located at downpipes where appropriate.
	2.	Infiltration	x	The British Geological Survey's (BGS) mapping shows no superficial deposits underlying the site. The bedrock geology underlying the site is mapped as Lower Tunbridge Wells Sand comprised of sandstone, siltstone and mudstone according to BGS mapping. Online soil mapping suggests that the site is underlain by 'slightly acidic and clayey soils with impeded drainage'. In accordance with the MSDC checklist, infiltration testing to BRE365 is not required at this stage unless infiltration is proposed as the sole method of surface water disposal. As there is a watercourse available to discharge to, this is considered sufficient at this stage.
	3.	Discharge to surface waters	✓	Based on EA LiDAR and MSDC SFRA (2024) mapping, there is a watercourse to the southwest of the site downhill from the proposed development. It is proposed to discharge surface water runoff into this watercourse. The watercourse should be fully surveyed to confirm bed and bank levels prior to detailed design, and the strategy refined to suit surveyed details. Discharge consent should be agreed with the Council, post planning.

	4.	Discharge to surface water sewer, highway drain or similar	x	It is proposed to discharge to the watercourse southwest of the site, which is a preferred method of surface water disposal based on the SuDS hierarchy
	5.	Discharge to combined sewer	x	

- 6.3. On review of the SuDS drainage hierarchy, and with reference to both national and local policy, it is proposed that the surface water runoff from the proposed development is discharged to the drain to the southwest of the site.
- 6.4. The potential for the use of various SuDS has been considered and optimised in the design, as per Table 4 below.

Table 4: SuDS Components Suitability Summary Table

SuDS Component	Description	Constraints and Opportunities	Suitable?
1. Infiltrating SuDS	Infiltration can contribute to reducing runoff rates and volumes while supporting baseflow and groundwater recharge processes. The suitability and infiltration rate depends on the permeability of the surrounding soils.	In accordance with the MSDC checklist, infiltration testing to BRE365 is not required at this stage unless infiltration is proposed as the sole method of surface water disposal. As there is a watercourse available to discharge to, this is considered sufficient at this stage.	No
2. Filter Drains and Filter Strips	Filter drains are shallow trenches filled with stone gravel that create temporary subsurface storage for the attenuation, conveyance and filtration of surface water runoff. Filter strips are uniformly graded and gently sloping strips of grass or dense vegetation, designed to treat runoff from adjacent impermeable areas by promoting sedimentation, filtration and infiltration.	Other approaches to attenuation have been deemed more suitable, therefore filter strips are not proposed within the SWDS.	No
3. Permeable Surfacing	Pervious surfaces can be used in combination with aggregate sub-base and/or geocellular/modular storage to attenuate and/or infiltrate runoff from surrounding	Permeable gravel surfacing is proposed to manage runoff from the proposed driveway.	Yes

SuDS Component	Description	Constraints and Opportunities	Suitable?
	surfaces and roofs. Liners can be used where ground conditions are not suitable for infiltration.		
4. Green & Blue Roofs	Green Roofs provide areas of visual benefit, ecological value, enhanced building performance and the reduction of surface water runoff. They are generally more costly to install and maintain than conventional roofs but can provide many long-term benefits and reduce the on-site storage volumes.	A sedum roof is proposed; however, this will not provide attenuation.	Yes
5. Rainwater Harvesting (RWH)	Rainwater Harvesting is the collection of rainwater runoff for use. It can be collected from roofs or other impermeable areas, stored, treated (where required) and then used as a supply of water for domestic, commercial and industrial properties.	Rainwater harvesting through use of water butts is recommended where possible within the development.	Yes
6. Swales	Swales are designed to convey, treat and attenuate surface water runoff and provide aesthetic and biodiversity benefits. They can replace conventional pipework as a means of conveying runoff; however, space constraints of some sites can make it difficult incorporating them into the design.	Due to the small scale of the proposed development, swales have not been proposed.	No
7. Rills and Channels	Rills and Channels keep runoff on the surface and convey runoff along the	Not necessary for this development.	No

SuDS Component	Description	Constraints and Opportunities	Suitable?
	surface to downstream SuDS components. They can be incorporated into the design to provide a visually appealing method of conveyance. They also provide effectiveness in pre-treatment removal of silts.		
8. Bioretention Systems	Bioretention systems can reduce runoff rates and volumes and treat pollution through the use of engineer soils and vegetation. They are particularly effective in delivering interception but can also be an attractive landscape feature whilst providing habitat and biodiversity.	SuDS rainwater planters are recommended at downpipe locations where possible. These would provide amenity enhancements and treatment to runoff from roofing.	Yes
9. Retention Ponds and Wetlands	Ponds and Wetlands are features with a permanent pool of water that provide both attenuation and treatment of surface water runoff. They enhance treatment processes and have great amenity and biodiversity benefits. Often a flow control system at the outfall controls the rates of discharge for a range of water levels during storm events.	Given the space available in the proposed development a new pond/wetland is deemed unnecessary. These SuDS measures are better suited to large scale developments.	No
10. Detention Basins	Detention Basins are landscaped depressions that are usually dry, except during and immediately following storm events, and can be used as a recreational or other amenity facility. They are generally appropriate to	Given the space available in the proposed development, a SuDS basin would not be a viable option.	No

SuDS Component	Description	Constraints and Opportunities	Suitable?
	manage high volumes of surface water from larger sites, such as a neighbourhood.		
11. Geocellular Systems	Attenuation storage tanks are used to create a below-ground void space for the temporary storage of surface water before infiltration, controlled release or use. The inherent flexibility in size and shape means they can be tailored to suit the specific characteristics and requirements of any site.	A geo-cellular tank is proposed to provide attenuation for runoff from hardstanding (except for driveway).	Yes
12. Proprietary Treatment Systems	Proprietary treatment systems are manufactured products that remove specific pollutants from surface water runoff. They are especially useful where site constraints preclude the use of other methods and can be useful in reducing the maintenance requirements of downstream SuDS.	Permeable gravel and rainwater planters have been proposed; proprietary treatment will not be required.	No

- 6.5. Following a review of the available SuDS options, and taking into account the site's constraints and opportunities, it is proposed that surface water runoff from the development will be managed via permeable gravel surfacing and below ground geo-cellular crate system. SuDS rainwater planters are also proposed at downpipe locations to provide further treatment to runoff and amenity and biodiversity enhancements.
- 6.6. The proposed Surface Water Drainage Layout is included as Appendix B.

Nearby Watercourses

- 6.7. Based on EA LiDAR and MSDC SFRA (2024) mapping, there is a watercourse to the southwest of the site downhill from the proposed development. It is proposed to discharge surface water runoff into this watercourse. The watercourse should be fully surveyed to confirm bed and bank levels prior to detailed design, and the strategy refined to suit surveyed details. Discharge consent should be agreed with the Council, post planning.

Greenfield Runoff Rate

- 6.8. The total site area is approximately 0.16ha.
- 6.9. The proposed plans indicate that the development includes a total hardstanding area of approximately 270m² (0.027ha). This is inclusive of the built footprint of the development and associated driveway and parking area.
- 6.10. The IH-124 method was developed as part of the original Flood Studies Report (FSR) in 1975 and was devised to calculate runoff from small catchments by estimating the mean annual flood flow (Qbar) using the following equation:

$$QBAR_{rural} = 0.00180 \times AREA^{0.89} \times SAAR^{1.17} \times SOIL^{2.17}$$

Where:

Qbar_{rural} is the mean annual flood flow from a rural catchment (approximately 2.3 year return period).

AREA is the area of the hardstanding surfaces in ha.

SAAR is the Standard Average Annual Rainfall for the period 1941 to 1970 in mm.

SPR is Standard Percentage Runoff coefficient for the SOIL category. The SOIL category is extracted from UK Winter Rainfall Acceptance Potential (WRAP) map.

- 6.11. The ICP SuDS variation is a scaled-down version of the IH-124 runoff method for estimating peak flow rates from both undeveloped and partly urbanised catchments that are smaller than 50 ha in size, which is appropriate in this instance.
- 6.12. The parameters used for estimating the greenfield runoff rates for the site are presented in Table 5.

Table 5. IH-124 Input Parameters

Greenfield runoff rates from the site - simulation criteria	
Rainfall Data	FEH (2022)
Area	0.027 Ha
SAAR	886.0
SOIL	0.47
Region	Region 6

- 6.13. Table 6 displays the estimated Q_{BAR} greenfield runoff rate for an impermeable area of 0.027ha. Q_{BAR} is calculated as 0.2l/s.
- 6.14. Small flow controls such as this can increase the risk of blockage. By having such a small rate, it increases it exponentially, which is not a practical solution.

- 6.15. The proposals are for a single dwelling with limited space on site to provide large underground storage. This is further limited by the presence of trees with root protection zones and a proposed package treatment plant. A design discharge rate of 0.8l/s is therefore proposed.

Table 6. Greenfield Runoff Rates

Return Period	Greenfield Runoff Rate (l/s)
1 in 1 Year	0.1
1 in 2 Year (QBAR)	0.2
1 in 30 Year	0.4
1 in 100 Year	0.5

InfoDrainage Modelling and Results

InfoDrainage Modelling

- 6.16. InfoDrainage Software (v2026.4) was used to calculate the indicative attenuation volumes from the development proposals area.
- 6.17. The total impermeable area being managed was calculated to be 0.027ha, which consists of all proposed hardstanding within the site. To account for urban creep, an additional 10% has been added to the area created by the proposed dwelling. The total area including urban creep is therefore 0.0272ha.
- 6.18. The model comprises:
- 4no. contributing catchments area to represent the impermeable area proposed. Catchment 1 (Garage), Catchment 3 (Dwelling), and Catchment 4 (Rear Hardstanding) are proposed to be directed to the geo-cellular attenuation crate system (detailed below). Runoff from Catchment 2 (Driveway and Parking) is to be directed into the sub-base associated with the proposed permeable surfacing (detailed below).
 - 1no. geo-cellular attenuation crate system. Modelled with a depth of 0.5m, 95% porosity, and a discharge rate of 0.8l/s, providing a total volume of 18.525m³.
 - 1no. permeable gravel area, draining only itself and the separate area of driveway. Modelled with a sub-base depth of 0.20m and void ratio of 30%. Fitted with a 45mm orifice plate to restrict flows upstream of the crate system.
- 6.19. Table 7 summarises the simulation criteria for the InfoDrainage model.

Table 7: Simulation Parameters

Catchment Area Simulation Parameters

Rainfall Data	FEH22
Total Area	0.0272ha
Return Periods	2, 30, 30+35% for climate change, 100, 100 +40% for Climate Change. Summer and Winter
Storm Durations	15, 30, 60, 120, 240, 360, 480, 960, 1440, minute
Volumetric Runoff Coefficient	1.0 (for all catchments)
Percentage Impervious	100%
Time of Concentration	5 minutes

- 6.20. The Environment Agency Peak Rainfall Climate Change Allowance guidance (updated in May 2022) was reviewed and subsequently the DEFRA Peak Rainfall Allowances Map was assessed to determine appropriate climate change allowances to inform the surface water drainage strategy. In line with this guidance, the upper end allowances for the Medway Management Catchment have been used for both the 1% and 3.3% annual exceedance probability events. An allowance of 35% has been used for the 3.3% AEP event and an allowance of 40% has been used for the 1% AEP event.

InfoDrainage Results

- 6.21. The full calculation outputs can be found in Appendix C of this report although the 1 in 100 year+40% climate change results for the proposed attenuation crate system have been summarised below:
- The maximum depth within the 0.50m deep crate system for a 1 in 100-year plus 40% climate change (critical storm) is 0.0.475m (240 mins, winter).
 - The maximum depth within the 0.20m deep permeable gravel sub-base for a 1 in 100-year plus 40% climate change (critical storm) is 0.196m (30 mins, summer).
 - The overall maximum discharge rate from the site in any event is 0.8l/s.
 - No flooding is observed in the critical storm event based on the InfoDrainage model.
- 6.22. As such, these results indicate that the runoff from the proposed development could be accommodated within a drainage system of the size modelled. The proposed surface water drainage strategy has been included in Appendix B.

Maintenance

- 6.23. Table 8 presents the details regarding the maintenance requirements for the proposed SuDS included as part of the development taken from the CIRIA C753 'The SuDS Manual'. Each manufacturer will have bespoke requirements, however, the below should be used as a guide.

Table 8: Maintenance Requirements for Geo-cellular Systems and Permeable Surfacing

Maintenance Schedule	Required Action	Typical Frequency
Permeable Gravel		
Regular Maintenance	Brushing (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
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 a sprayer	As required
Remedial Actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of the level of the gravel	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 structure by remedial sweeping	Every 10 to 15 years 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, 48hr after large storms in first six months
	Inspect silt accumulation rates and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually
Geocellular Storage		
Regular Maintenance	Inspect and identify any area that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment,	Annually

	algae or other matter; remove and replace surface infiltration medium as necessary.	
	Remove sediment from pre-treatment structures and/or internal forebays	Annually, or as required
Remedial Actions	Repair/ rehabilitate inlets, outlet, overflows and vents	As required
Monitoring	Inspect/ check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required

Designing for Exceedance

- 6.24. Exceedance events are those greater than the design rainfall event, i.e. greater than the 100-year rainfall event plus 40% increase for climate change.
- 6.25. Periods of exceedance occur when the rate of surface water runoff exceeds the drainage system capacity. Conveyance beneath ground cannot, generally, be economically or sustainably constructed to the scale required for the most extreme rainfall events. This may result, on occasion, in the surface water runoff exceeding the capacity of the drainage network, with excess water (exceedance flow) being conveyed above ground.
- 6.26. For situations where extreme rainfall intensity exceeds inlet capacities, or for extreme storm events exceeding the design flood event considered for drainage design, the surface water exceedance will follow the localised topography, and flow southwest, away from the proposed development. It is noted that there are no vulnerable receptors in this direction from the site that could be affected.

Water Quality

- 6.27. In order to protect the downstream receiving water body, a key element of SuDS is that they have the potential to improve the quality of surface water discharged from a site. In order to assess this, the “Pollution hazard indices for different land use classifications”, provided in table 26.2 of the CIRIA SuDS Manual (C753) has been reviewed. The indices use four different indicators for assessing pollution potential based on the hazard level, total suspended solids (TSS), Metals, and Hydrocarbons.
- 6.28. The Pollution Hazard Indices are summarised in Table 9 below (with reference to table 26.3 in the CIRIA SuDS manual). The pollution hazard indices for “Residential roofing” and ‘residential parking and low traffic roads have been used.

Table 9: Pollution Hazard Indices -

Land Use	Pollution Hazard Level	Total Suspended Solids (TSS)	Metals	Hydrocarbons
Residential roofs	Very Low	0.2	0.2	0.05
Residential car parks and low traffic roads	Low	0.5	0.4	0.4

6.29. Table 10 shows that the proposed SuDS rainwater planters and permeable gravel will offer sufficient treatment for the residential roofing and parking/driveway.

Table 10: Pollution Mitigation Indices

SuDS	Total Suspended Solids (TSS)	Metals	Hydrocarbons
Permeable Surfacing	0.7	0.6	0.7
Bioretention Systems	0.8	0.8	0.8

Foul Drainage

- 6.30. It is proposed for foul water from the development to be directed via a traditional gravity system to a package treatment plant located in the east of the site. The package treatment plant must be located a minimum of 7m from habitable buildings in accordance with Buildings Regulations - Part H and shall be sized accordingly to the 'Flows and Loads' specifications. The package treatment plant will provide primary and secondary treatment to waste, and shall be emptied by tanker. In view of this approach, it is noted that the EA General Binding Rules need not apply.

7. Conclusions

- 7.1. This FRA and SWDS has been undertaken with reference to the requirements of NPPF and Planning Practice Guidance with respect to the development at Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, Sussex, RH19 3TQ. It has been written to support a planning application and prepared with due consideration to the nature of the proposed development to provide the appropriate level of detail.

Flood Risk Assessment

- 7.2. An assessment of the risk of flooding from all sources has been undertaken and is summarised in the table below:

Source of Flooding	Flood Risk Summary
Fluvial Pluvial Tidal Reservoirs Groundwater Sewers Canals	The site is considered to be at low risk from all analysed sources of flooding.

- 7.3. The FRA supports the planning application and demonstrates that there is an acceptable level of flood risk to the site. The development does not increase flood risk off site or to the wider area.

Surface Water Drainage Strategy

- 7.4. The full calculation outputs can be found in Appendix C of this report although the 1 in 100 year+40% climate change results for the proposed attenuation crate system have been summarised below:
- The maximum depth within the 0.50m deep crate system for a 1 in 100-year plus 40% climate change (critical storm) is 0.475m (240 mins, winter).
 - The maximum depth within the 0.20m deep permeable gravel sub-base for a 1 in 100-year plus 40% climate change (critical storm) is 0.196m (30 mins, summer).
 - The overall maximum discharge rate from the site in any event is 0.8l/s.
 - No flooding is observed in the critical storm event based on the InfoDrainage model.
- 7.5. It is proposed to discharge surface water runoff from the site to the drain to the southwest of the site at 0.8l/s.

- 7.6. This Flood Risk Assessment and Surface Water Drainage Strategy should be submitted as part of the planning application to satisfy the requirements under NPPF.

Appendix A - Development Proposals

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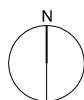
PLANNING APPLICATION

Rev	date
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LAND AT HOUNDS' COTTAGE, WALL HILL ROAD, RH19 3TQ
EXISTING SITE LOCATION PLAN
Scale 1:1000 @ A4 Date 01/26 Drg No. HC-PL-EX-P-01 Rev



Stephen Macbean Architect
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PLANNING APPLICATION

Rev	date

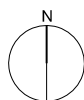
LAND AT HOUNDS' COTTAGE, WALL HILL ROAD, RH19 3TQ
EXISTING SITE PLAN
Scale 1:500 @ A4 Date 01/26 Drg No. HC-PL-EX-P-02 Rev

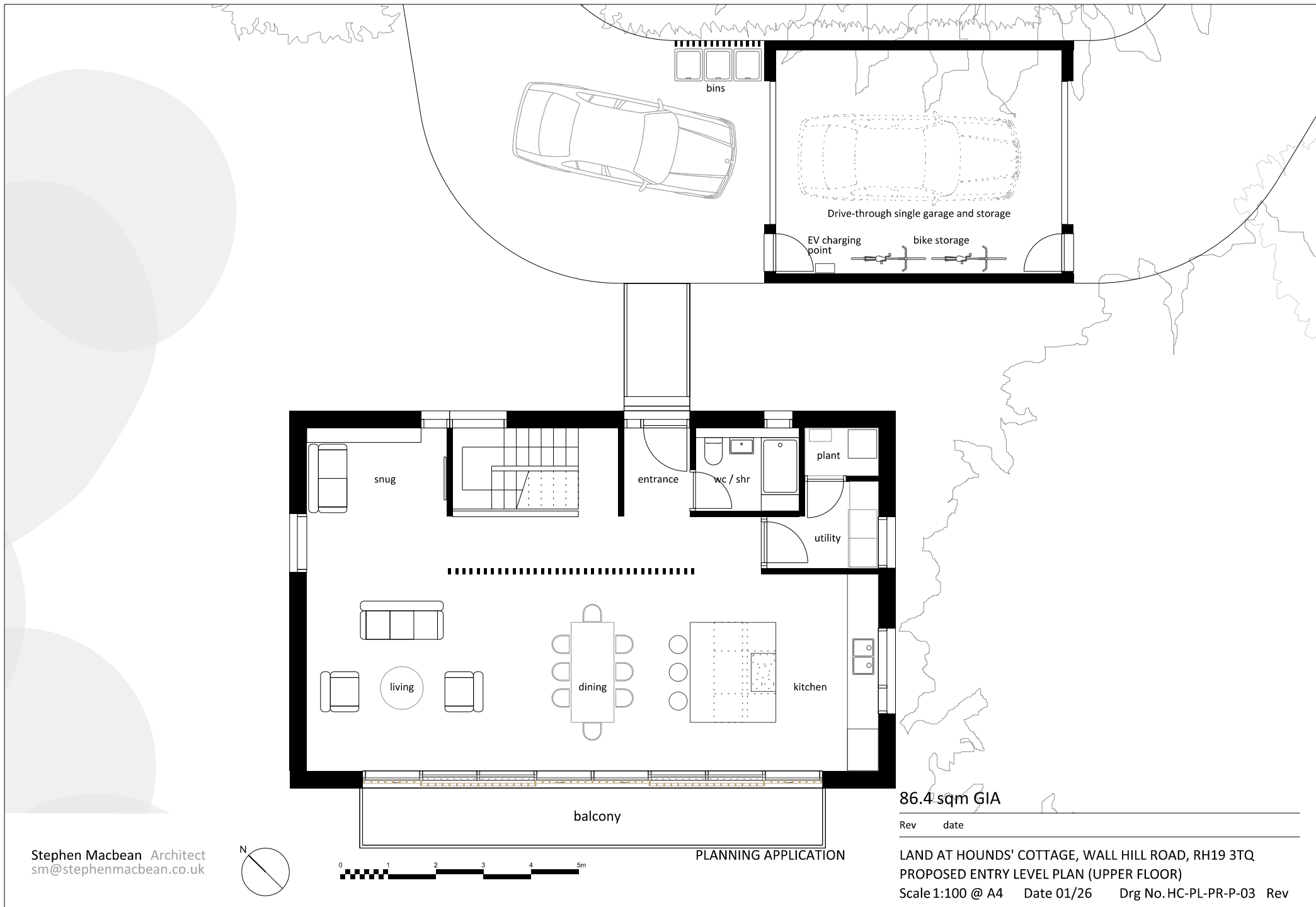


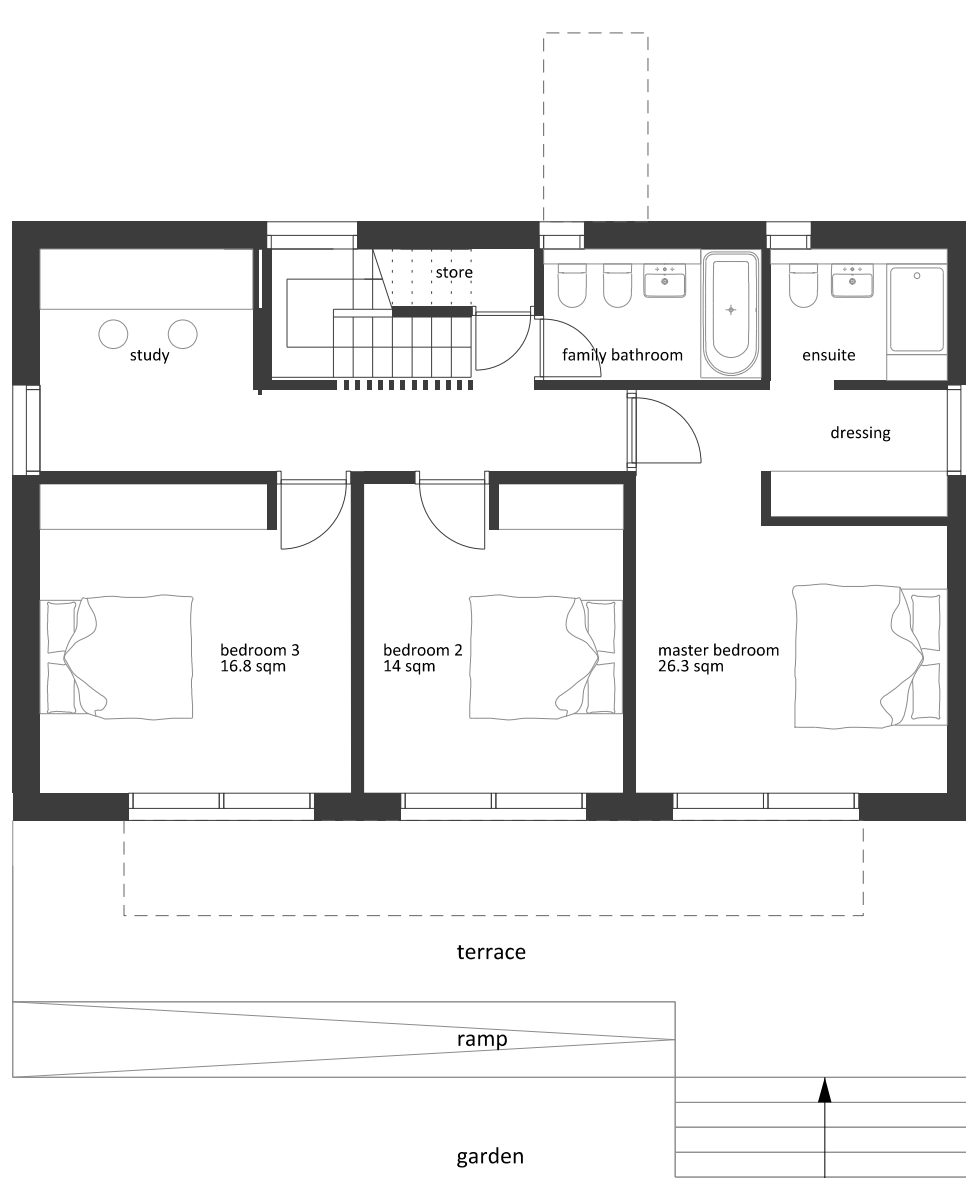


- 1 shared driveway (existing)
- 2 proposed driveway
- 3 garage
- 4 entry bridge
- 5 PV array
- 6 sedum roof
- 7 terrace
- 8 garden

- T1 Monterey Cypress
- T5 Oak







86.4 sqm GIA

Rev date

Stephen Macbean Architect
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PLANNING APPLICATION

LAND AT HOUNDS' COTTAGE, WALL HILL ROAD, RH19 3TQ
PROPOSED LOWER LEVEL PLAN

Scale 1:100 @ A4 Date 01/26 Drg No. HC-PL-PR-P-04 Rev



For details of trees refer to Broad Oak Tree Consultants' Tree Report.

Trees shown are representative of size and height
For clarity not all trees are shown on this drawing

Rev	date

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PLANNING APPLICATION

LAND AT HOUNDS' COTTAGE, WALL HILL ROAD, RH19 3TQ
PROPOSED SITE SECTION
Scale 1:200 @ A4 Date 01/26 Drg No. HC-PL-PR-S-01 Rev

Appendix B - Surface Water Drainage Strategy



DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
THE CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON SITE.
ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER
FOR CLARIFICATION BEFORE PROCEEDING.
THIS DRAWING IS COPYRIGHT AND OWNED BY AEGAEA.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
REFER TO THE RELEVANT CONSTRUCTION (DESIGN AND MANAGEMENT)
DOCUMENTATION WHERE APPLICABLE.
IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY
A COMPETENT CONTRACTOR, WORKING WHERE APPROPRIATE TO AN
APPROVED METHOD STATEMENT.

KEY

APPLICATION BOUNDARY

EXISTING

WATERCOURSE

PROPOSED

SURFACE WATER PIPE

SURFACE WATER INSPECTION
CHAMBER/MANHOLE

RAINWATER DOWNPIPE

GEO-CELLULAR ATTENUATION CRATE
SYSTEM

VORTEX FLOW CONTROL

HEADWALL

SUDS PLANTER (TO BE INSTALLED
AT DOWNPIPES LOCATIONS)

PERMEABLE GRAVEL SURFACING (WITH
SUB-BASE)

PACKAGE TREATMENT PLANT

FOUL WATER PIPE

FOUL WATER INSPECTION
CHAMBER/MANHOLE

A02	09/03/26	REVISED FOR CLIENT COMMENTS	AS
A01	05/03/26	DRAFT FOR COMMENT	AS

Rev	Date	Description	By
-----	------	-------------	----

Client

AMANDA BUTTON

Project
LAND AT HOUNDS COTTAGE, WALL HILL
ROAD, ASHURST WOOD

Title
SURFACE WATER DRAINAGE STRATEGY

Project No.	Drawing No.	Revision
AEG10347	DR01	A02

Drawn	Checked	Approved	Date	Scale @ A1
AS	ML	OH	09/03/26	1:100

Drawing Status

REVISION 2

aegaea
water, civils and environment

0m 2 4 6 8 10
SCALE

Hounds' Cottage

Appendix C - InfoDrainage Calculations

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026			 water, civils and environment
Report Details: Type: Inflows Storm Phase: Phase	Designed by: AS	Checked by: ML	Approved By: OH	
Company Address: Aegaea Limited				



Catchment 1 - Garage

Type : Catchment Area

Area (ha)	0.003
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment 2 - Road/Parking

Type : Catchment Area

Area (ha)	0.006
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment 3 - Dwelling

Type : Catchment Area

Area (ha)	0.012
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	10

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Inflows Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			



Catchment 4 - Rear hardstanding

Type : Catchment Area

Area (ha)	0.005
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Junctions Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

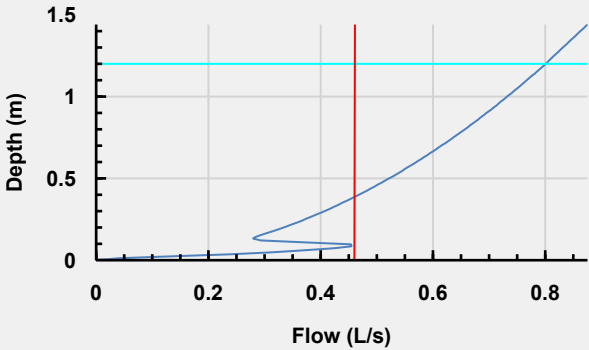
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
Flow Control Chamber	Manhole	208712.239	601486.353	122.000	1.600	120.400	Circular	1.200

Name	Lock
Flow Control Chamber	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
Flow Control Chamber	Inlet	Pipe	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
Flow Control Chamber	Outlet	(None)	Hydro-Brake®
	Invert Level (m)	120.400	
	Design Depth (m)	1.200	
	Design Flow (L/s)	0.8	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0039-8000-1200-8000	
			

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			



Permeable Surfacing

Type : Porous Paving

Dimensions

Exceedance Level (m)	127.000
Depth (m)	0.250
Base Level (m)	126.750
Paving Layer Depth (mm)	50
Membrane Percolation (m/hr)	9.0
Porosity (%)	30
Length (m)	3.000
Long. Slope (1:X)	100.00
Width (m)	10.000
Total Volume (m³)	1.816

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	100
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment 2 - Road/Parking
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe 1
Outlet Type	Orifice
Diameter (m)	0.045
Coefficient of Discharge	0.600
Invert Level (m)	126.750

Advanced

Conductivity (m/hr)	500.0
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Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			



Cellular Storage

Type : Cellular Storage

Dimensions

Exceedance Level (m)	122.000
Depth (m)	0.500
Base Level (m)	120.600
Number of Crates Long	1
Number of Crates Wide	1
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	6.5
Crate Width (m)	6
Crate Height (m)	0.5
Total Volume (m³)	19.425

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment 3 - Dwelling
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Catchment 4 - Rear hardstanding
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe 1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe
Outlet Type	Free Discharge

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Inflow Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment 1 - Garage	Cellular Storage		Time of Concentration	0.003	100	0	100	0.003
Catchment 2 - Road/Parking	Permeable Surfacing		Time of Concentration	0.006	100	0	100	0.006
Catchment 3 - Dwelling	Cellular Storage		Time of Concentration	0.012	100	10	110	0.014
Catchment 4 - Rear hardstanding	Cellular Storage		Time of Concentration	0.005	100	0	100	0.005
TOTAL		0.0		0.027				0.028

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Title: Rainfall Analysis Criteria		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH		Type: FEH
Site Location	GB 541951 136495 TQ 41951 36495	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	0.000
30.0	35.000
100.0	0.000
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Title: UK and Ireland Rural Runoff Calculator		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

ICP SUDS / IH 124

Details

Method	ICP SUDS
Area (ha)	0.027
SAAR (mm)	886.0
Soil	0.47
Region	Region 6
Urban	0
Return Period (years)	0

Results

Region	QBAR Rural (L/s)	QBAR Urban (L/s)	Q 1 (years) (L/s)	Q 30 (years) (L/s)	Q 100 (years) (L/s)
Region 6	0.2	0.2	0.1	0.4	0.5

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			



Summary Results for Catchment 1 - Garage: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.7	0.305
FEH: 2 years: +0 %: 15 mins: Winter	0.00	0.7	0.305
FEH: 2 years: +0 %: 30 mins: Summer	0.00	0.5	0.396
FEH: 2 years: +0 %: 30 mins: Winter	0.00	0.4	0.396
FEH: 2 years: +0 %: 60 mins: Summer	0.00	0.4	0.504
FEH: 2 years: +0 %: 60 mins: Winter	0.00	0.3	0.504
FEH: 2 years: +0 %: 120 mins: Summer	0.00	0.3	0.702
FEH: 2 years: +0 %: 120 mins: Winter	0.00	0.2	0.690
FEH: 2 years: +0 %: 240 mins: Summer	0.00	0.2	0.894
FEH: 2 years: +0 %: 240 mins: Winter	0.00	0.2	0.918
FEH: 2 years: +0 %: 360 mins: Summer	0.00	0.2	1.038
FEH: 2 years: +0 %: 360 mins: Winter	0.00	0.1	1.020
FEH: 2 years: +0 %: 480 mins: Summer	0.00	0.2	1.116
FEH: 2 years: +0 %: 480 mins: Winter	0.00	0.1	1.140
FEH: 2 years: +0 %: 960 mins: Summer	0.00	0.1	1.362
FEH: 2 years: +0 %: 960 mins: Winter	0.00	0.1	1.344
FEH: 2 years: +0 %: 1440 mins: Summer	0.00	0.1	1.620
FEH: 2 years: +0 %: 1440 mins: Winter	0.00	0.0	1.536
FEH: 30 years: +0 %: 15 mins: Summer	0.00	1.6	0.689

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +0 %: 15 mins: Winter	0.00	1.5	0.689
FEH: 30 years: +0 %: 30 mins: Summer	0.00	1.1	0.923
FEH: 30 years: +0 %: 30 mins: Winter	0.00	1.0	0.917
FEH: 30 years: +0 %: 60 mins: Summer	0.00	0.9	1.175
FEH: 30 years: +0 %: 60 mins: Winter	0.00	0.8	1.169
FEH: 30 years: +0 %: 120 mins: Summer	0.00	0.7	1.428
FEH: 30 years: +0 %: 120 mins: Winter	0.00	0.5	1.428
FEH: 30 years: +0 %: 240 mins: Summer	0.00	0.4	1.704
FEH: 30 years: +0 %: 240 mins: Winter	0.00	0.3	1.704
FEH: 30 years: +0 %: 360 mins: Summer	0.00	0.3	1.908
FEH: 30 years: +0 %: 360 mins: Winter	0.00	0.2	1.896
FEH: 30 years: +0 %: 480 mins: Summer	0.00	0.3	2.028
FEH: 30 years: +0 %: 480 mins: Winter	0.00	0.2	2.022
FEH: 30 years: +0 %: 960 mins: Summer	0.00	0.2	2.376
FEH: 30 years: +0 %: 960 mins: Winter	0.00	0.1	2.400
FEH: 30 years: +0 %: 1440 mins: Summer	0.00	0.1	2.598
FEH: 30 years: +0 %: 1440 mins: Winter	0.00	0.1	2.550

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.2	0.945
FEH: 30 years: +35 %: 15 mins: Winter	0.00	2.0	0.939
FEH: 30 years: +35 %: 30 mins: Summer	0.00	1.4	1.249
FEH: 30 years: +35 %: 30 mins: Winter	0.00	1.4	1.254
FEH: 30 years: +35 %: 60 mins: Summer	0.00	1.3	1.589
FEH: 30 years: +35 %: 60 mins: Winter	0.00	1.0	1.580
FEH: 30 years: +35 %: 120 mins: Summer	0.00	0.9	1.919
FEH: 30 years: +35 %: 120 mins: Winter	0.00	0.7	1.926
FEH: 30 years: +35 %: 240 mins: Summer	0.00	0.6	2.322
FEH: 30 years: +35 %: 240 mins: Winter	0.00	0.4	2.310
FEH: 30 years: +35 %: 360 mins: Summer	0.00	0.4	2.544
FEH: 30 years: +35 %: 360 mins: Winter	0.00	0.3	2.550
FEH: 30 years: +35 %: 480 mins: Summer	0.00	0.4	2.736
FEH: 30 years: +35 %: 480 mins: Winter	0.00	0.2	2.730
FEH: 30 years: +35 %: 960 mins: Summer	0.00	0.2	3.228
FEH: 30 years: +35 %: 960 mins: Winter	0.00	0.1	3.204
FEH: 30 years: +35 %: 1440 mins: Summer	0.00	0.2	3.522

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			

FEH: 30 years: +35 %: 1440 mins: Winter	0.00	0.1	3.552
FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.0	0.883
FEH: 100 years: +0 %: 15 mins: Winter	0.00	1.9	0.879
FEH: 100 years: +0 %: 30 mins: Summer	0.00	1.4	1.188
FEH: 100 years: +0 %: 30 mins: Winter	0.00	1.3	1.181
FEH: 100 years: +0 %: 60 mins: Summer	0.00	1.2	1.511
FEH: 100 years: +0 %: 60 mins: Winter	0.00	1.0	1.507
FEH: 100 years: +0 %: 120 mins: Summer	0.00	0.9	1.781
FEH: 100 years: +0 %: 120 mins: Winter	0.00	0.6	1.782
FEH: 100 years: +0 %: 240 mins: Summer	0.00	0.6	2.118
FEH: 100 years: +0 %: 240 mins: Winter	0.00	0.4	2.142
FEH: 100 years: +0 %: 360 mins: Summer	0.00	0.4	2.370
FEH: 100 years: +0 %: 360 mins: Winter	0.00	0.3	2.370
FEH: 100 years: +0 %: 480 mins: Summer	0.00	0.3	2.520
FEH: 100 years: +0 %: 480 mins: Winter	0.00	0.2	2.532
FEH: 100 years: +0 %: 960 mins: Summer	0.00	0.2	3.036
FEH: 100 years: +0 %: 960 mins: Winter	0.00	0.1	2.982

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
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Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 100 years: +0 %: 1440 mins: Summer	0.00	0.2	3.348
FEH: 100 years: +0 %: 1440 mins: Winter	0.00	0.1	3.444
FEH: 100 years: +40 %: 15 mins: Summer	0.00	2.8	1.240
FEH: 100 years: +40 %: 15 mins: Winter	0.00	2.6	1.235
FEH: 100 years: +40 %: 30 mins: Summer	0.00	1.9	1.652
FEH: 100 years: +40 %: 30 mins: Winter	0.00	1.8	1.657
FEH: 100 years: +40 %: 60 mins: Summer	0.00	1.7	2.124
FEH: 100 years: +40 %: 60 mins: Winter	0.00	1.4	2.117
FEH: 100 years: +40 %: 120 mins: Summer	0.00	1.2	2.512
FEH: 100 years: +40 %: 120 mins: Winter	0.00	0.9	2.509
FEH: 100 years: +40 %: 240 mins: Summer	0.00	0.8	2.982
FEH: 100 years: +40 %: 240 mins: Winter	0.00	0.5	2.970
FEH: 100 years: +40 %: 360 mins: Summer	0.00	0.6	3.288
FEH: 100 years: +40 %: 360 mins: Winter	0.00	0.4	3.282
FEH: 100 years: +40 %: 480 mins: Summer	0.00	0.5	3.540
FEH: 100 years: +40 %: 480 mins: Winter	0.00	0.3	3.522
FEH: 100 years: +40 %: 960 mins: Summer	0.00	0.3	4.254

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
		Designed by: AS	Checked by: ML		Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address: Aegaea Limited			

FEH: 100 years: +40 %: 960 mins: Winter	0.00	0.2	4.218
FEH: 100 years: +40 %: 1440 mins: Summer	0.00	0.2	4.704
FEH: 100 years: +40 %: 1440 mins: Winter	0.00	0.1	4.686

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026	
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML
		Approved By: OH	
		Company Address: Aegaea Limited	



Summary Results for Catchment 2 - Road/Parking: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.4	0.587
FEH: 2 years: +0 %: 15 mins: Winter	0.01	1.3	0.587
FEH: 2 years: +0 %: 30 mins: Summer	0.01	0.9	0.773
FEH: 2 years: +0 %: 30 mins: Winter	0.01	0.8	0.773
FEH: 2 years: +0 %: 60 mins: Summer	0.01	0.8	0.990
FEH: 2 years: +0 %: 60 mins: Winter	0.01	0.6	0.978
FEH: 2 years: +0 %: 120 mins: Summer	0.01	0.6	1.344
FEH: 2 years: +0 %: 120 mins: Winter	0.01	0.5	1.344
FEH: 2 years: +0 %: 240 mins: Summer	0.01	0.4	1.746
FEH: 2 years: +0 %: 240 mins: Winter	0.01	0.3	1.740
FEH: 2 years: +0 %: 360 mins: Summer	0.01	0.3	1.998
FEH: 2 years: +0 %: 360 mins: Winter	0.01	0.2	1.998
FEH: 2 years: +0 %: 480 mins: Summer	0.01	0.3	2.172
FEH: 2 years: +0 %: 480 mins: Winter	0.01	0.2	2.154
FEH: 2 years: +0 %: 960 mins: Summer	0.01	0.2	2.646
FEH: 2 years: +0 %: 960 mins: Winter	0.01	0.1	2.604
FEH: 2 years: +0 %: 1440 mins: Summer	0.01	0.1	2.856
FEH: 2 years: +0 %: 1440 mins: Winter	0.01	0.1	2.826
FEH: 30 years: +0 %: 15 mins: Summer	0.01	3.1	1.341

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +0 %: 15 mins: Winter	0.01	2.9	1.339
FEH: 30 years: +0 %: 30 mins: Summer	0.01	2.1	1.780
FEH: 30 years: +0 %: 30 mins: Winter	0.01	1.9	1.780
FEH: 30 years: +0 %: 60 mins: Summer	0.01	1.8	2.273
FEH: 30 years: +0 %: 60 mins: Winter	0.01	1.5	2.267
FEH: 30 years: +0 %: 120 mins: Summer	0.01	1.3	2.753
FEH: 30 years: +0 %: 120 mins: Winter	0.01	0.9	2.759
FEH: 30 years: +0 %: 240 mins: Summer	0.01	0.9	3.318
FEH: 30 years: +0 %: 240 mins: Winter	0.01	0.6	3.318
FEH: 30 years: +0 %: 360 mins: Summer	0.01	0.6	3.660
FEH: 30 years: +0 %: 360 mins: Winter	0.01	0.4	3.684
FEH: 30 years: +0 %: 480 mins: Summer	0.01	0.5	3.942
FEH: 30 years: +0 %: 480 mins: Winter	0.01	0.3	3.924
FEH: 30 years: +0 %: 960 mins: Summer	0.01	0.3	4.632
FEH: 30 years: +0 %: 960 mins: Winter	0.01	0.2	4.674
FEH: 30 years: +0 %: 1440 mins: Summer	0.01	0.2	5.058
FEH: 30 years: +0 %: 1440 mins: Winter	0.01	0.2	5.160

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
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Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +35 %: 15 mins: Summer	0.01	4.2	1.830
FEH: 30 years: +35 %: 15 mins: Winter	0.01	3.9	1.829
FEH: 30 years: +35 %: 30 mins: Summer	0.01	2.8	2.425
FEH: 30 years: +35 %: 30 mins: Winter	0.01	2.6	2.424
FEH: 30 years: +35 %: 60 mins: Summer	0.01	2.5	3.081
FEH: 30 years: +35 %: 60 mins: Winter	0.01	2.0	3.071
FEH: 30 years: +35 %: 120 mins: Summer	0.01	1.8	3.725
FEH: 30 years: +35 %: 120 mins: Winter	0.01	1.3	3.743
FEH: 30 years: +35 %: 240 mins: Summer	0.01	1.2	4.481
FEH: 30 years: +35 %: 240 mins: Winter	0.01	0.8	4.488
FEH: 30 years: +35 %: 360 mins: Summer	0.01	0.9	4.956
FEH: 30 years: +35 %: 360 mins: Winter	0.01	0.6	4.974
FEH: 30 years: +35 %: 480 mins: Summer	0.01	0.7	5.310
FEH: 30 years: +35 %: 480 mins: Winter	0.01	0.5	5.298
FEH: 30 years: +35 %: 960 mins: Summer	0.01	0.4	6.276
FEH: 30 years: +35 %: 960 mins: Winter	0.01	0.3	6.252
FEH: 30 years: +35 %: 1440 mins: Summer	0.01	0.3	6.900

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			

FEH: 30 years: +35 %: 1440 mins: Winter	0.01	0.2	6.918
FEH: 100 years: +0 %: 15 mins: Summer	0.01	3.9	1.709
FEH: 100 years: +0 %: 15 mins: Winter	0.01	3.7	1.706
FEH: 100 years: +0 %: 30 mins: Summer	0.01	2.6	2.298
FEH: 100 years: +0 %: 30 mins: Winter	0.01	2.5	2.291
FEH: 100 years: +0 %: 60 mins: Summer	0.01	2.3	2.937
FEH: 100 years: +0 %: 60 mins: Winter	0.01	1.9	2.924
FEH: 100 years: +0 %: 120 mins: Summer	0.01	1.6	3.473
FEH: 100 years: +0 %: 120 mins: Winter	0.01	1.2	3.467
FEH: 100 years: +0 %: 240 mins: Summer	0.01	1.1	4.134
FEH: 100 years: +0 %: 240 mins: Winter	0.01	0.7	4.134
FEH: 100 years: +0 %: 360 mins: Summer	0.01	0.8	4.584
FEH: 100 years: +0 %: 360 mins: Winter	0.01	0.5	4.548
FEH: 100 years: +0 %: 480 mins: Summer	0.01	0.7	4.920
FEH: 100 years: +0 %: 480 mins: Winter	0.01	0.4	4.926
FEH: 100 years: +0 %: 960 mins: Summer	0.01	0.4	5.892
FEH: 100 years: +0 %: 960 mins: Winter	0.01	0.3	5.886

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			

FEH: 100 years: +0 %: 1440 mins: Summer	0.01	0.3	6.588
FEH: 100 years: +0 %: 1440 mins: Winter	0.01	0.2	6.510
FEH: 100 years: +40 %: 15 mins: Summer	0.01	5.4	2.407
FEH: 100 years: +40 %: 15 mins: Winter	0.01	5.1	2.397
FEH: 100 years: +40 %: 30 mins: Summer	0.01	3.7	3.213
FEH: 100 years: +40 %: 30 mins: Winter	0.01	3.5	3.212
FEH: 100 years: +40 %: 60 mins: Summer	0.01	3.3	4.109
FEH: 100 years: +40 %: 60 mins: Winter	0.01	2.6	4.101
FEH: 100 years: +40 %: 120 mins: Summer	0.01	2.3	4.880
FEH: 100 years: +40 %: 120 mins: Winter	0.01	1.7	4.868
FEH: 100 years: +40 %: 240 mins: Summer	0.01	1.5	5.765
FEH: 100 years: +40 %: 240 mins: Winter	0.01	1.0	5.778
FEH: 100 years: +40 %: 360 mins: Summer	0.01	1.1	6.384
FEH: 100 years: +40 %: 360 mins: Winter	0.01	0.8	6.402
FEH: 100 years: +40 %: 480 mins: Summer	0.01	0.9	6.864
FEH: 100 years: +40 %: 480 mins: Winter	0.01	0.6	6.882
FEH: 100 years: +40 %: 960 mins: Summer	0.01	0.6	8.244

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

FEH: 100 years: +40 %: 960 mins: Winter	0.01	0.4	8.226
FEH: 100 years: +40 %: 1440 mins: Summer	0.01	0.4	9.234
FEH: 100 years: +40 %: 1440 mins: Winter	0.01	0.3	9.228

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			



Summary Results for Catchment 3 - Dwelling: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FEH: 2 years: +0 %: 15 mins: Summer	0.01	2.9	1.245
FEH: 2 years: +0 %: 15 mins: Winter	0.01	2.7	1.248
FEH: 2 years: +0 %: 30 mins: Summer	0.01	1.9	1.636
FEH: 2 years: +0 %: 30 mins: Winter	0.01	1.8	1.636
FEH: 2 years: +0 %: 60 mins: Summer	0.01	1.7	2.069
FEH: 2 years: +0 %: 60 mins: Winter	0.01	1.3	2.069
FEH: 2 years: +0 %: 120 mins: Summer	0.01	1.4	2.849
FEH: 2 years: +0 %: 120 mins: Winter	0.01	1.0	2.849
FEH: 2 years: +0 %: 240 mins: Summer	0.01	1.0	3.696
FEH: 2 years: +0 %: 240 mins: Winter	0.01	0.6	3.690
FEH: 2 years: +0 %: 360 mins: Summer	0.01	0.8	4.224
FEH: 2 years: +0 %: 360 mins: Winter	0.01	0.5	4.230
FEH: 2 years: +0 %: 480 mins: Summer	0.01	0.6	4.596
FEH: 2 years: +0 %: 480 mins: Winter	0.01	0.4	4.578
FEH: 2 years: +0 %: 960 mins: Summer	0.01	0.4	5.520
FEH: 2 years: +0 %: 960 mins: Winter	0.01	0.2	5.460
FEH: 2 years: +0 %: 1440 mins: Summer	0.01	0.3	6.102
FEH: 2 years: +0 %: 1440 mins: Winter	0.01	0.2	6.078
FEH: 30 years: +0 %: 15 mins: Summer	0.01	6.5	2.830

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026	
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML
		Approved By: OH	
		Company Address: Aegaea Limited	



FEH: 30 years: +0 %: 15 mins: Winter	0.01	6.1	2.830
FEH: 30 years: +0 %: 30 mins: Summer	0.01	4.3	3.764
FEH: 30 years: +0 %: 30 mins: Winter	0.01	4.1	3.770
FEH: 30 years: +0 %: 60 mins: Summer	0.01	3.8	4.803
FEH: 30 years: +0 %: 60 mins: Winter	0.01	3.1	4.798
FEH: 30 years: +0 %: 120 mins: Summer	0.01	2.8	5.836
FEH: 30 years: +0 %: 120 mins: Winter	0.01	2.0	5.843
FEH: 30 years: +0 %: 240 mins: Summer	0.01	1.8	7.013
FEH: 30 years: +0 %: 240 mins: Winter	0.01	1.2	7.013
FEH: 30 years: +0 %: 360 mins: Summer	0.01	1.4	7.746
FEH: 30 years: +0 %: 360 mins: Winter	0.01	0.9	7.770
FEH: 30 years: +0 %: 480 mins: Summer	0.01	1.1	8.322
FEH: 30 years: +0 %: 480 mins: Winter	0.01	0.7	8.322
FEH: 30 years: +0 %: 960 mins: Summer	0.01	0.7	9.798
FEH: 30 years: +0 %: 960 mins: Winter	0.01	0.4	9.828
FEH: 30 years: +0 %: 1440 mins: Summer	0.01	0.5	10.692
FEH: 30 years: +0 %: 1440 mins: Winter	0.01	0.3	10.812

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +35 %: 15 mins: Summer	0.01	8.8	3.867
FEH: 30 years: +35 %: 15 mins: Winter	0.01	8.3	3.864
FEH: 30 years: +35 %: 30 mins: Summer	0.01	5.9	5.121
FEH: 30 years: +35 %: 30 mins: Winter	0.01	5.5	5.119
FEH: 30 years: +35 %: 60 mins: Summer	0.01	5.2	6.511
FEH: 30 years: +35 %: 60 mins: Winter	0.01	4.2	6.496
FEH: 30 years: +35 %: 120 mins: Summer	0.01	3.7	7.887
FEH: 30 years: +35 %: 120 mins: Winter	0.01	2.7	7.876
FEH: 30 years: +35 %: 240 mins: Summer	0.01	2.5	9.467
FEH: 30 years: +35 %: 240 mins: Winter	0.01	1.6	9.461
FEH: 30 years: +35 %: 360 mins: Summer	0.01	1.9	10.487
FEH: 30 years: +35 %: 360 mins: Winter	0.01	1.2	10.482
FEH: 30 years: +35 %: 480 mins: Summer	0.01	1.5	11.226
FEH: 30 years: +35 %: 480 mins: Winter	0.01	1.0	11.226
FEH: 30 years: +35 %: 960 mins: Summer	0.01	0.9	13.206
FEH: 30 years: +35 %: 960 mins: Winter	0.01	0.6	13.194
FEH: 30 years: +35 %: 1440 mins: Summer	0.01	0.7	14.496

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			

FEH: 30 years: +35 %: 1440 mins: Winter	0.01	0.4	14.478
FEH: 100 years: +0 %: 15 mins: Summer	0.01	8.2	3.615
FEH: 100 years: +0 %: 15 mins: Winter	0.01	7.7	3.605
FEH: 100 years: +0 %: 30 mins: Summer	0.01	5.6	4.849
FEH: 100 years: +0 %: 30 mins: Winter	0.01	5.2	4.852
FEH: 100 years: +0 %: 60 mins: Summer	0.01	4.9	6.206
FEH: 100 years: +0 %: 60 mins: Winter	0.01	4.0	6.184
FEH: 100 years: +0 %: 120 mins: Summer	0.01	3.5	7.342
FEH: 100 years: +0 %: 120 mins: Winter	0.01	2.5	7.343
FEH: 100 years: +0 %: 240 mins: Summer	0.01	2.3	8.717
FEH: 100 years: +0 %: 240 mins: Winter	0.01	1.5	8.711
FEH: 100 years: +0 %: 360 mins: Summer	0.01	1.7	9.641
FEH: 100 years: +0 %: 360 mins: Winter	0.01	1.1	9.678
FEH: 100 years: +0 %: 480 mins: Summer	0.01	1.4	10.374
FEH: 100 years: +0 %: 480 mins: Winter	0.01	0.9	10.350
FEH: 100 years: +0 %: 960 mins: Summer	0.01	0.9	12.444
FEH: 100 years: +0 %: 960 mins: Winter	0.01	0.6	12.480

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 100 years: +0 %: 1440 mins: Summer	0.01	0.6	13.866
FEH: 100 years: +0 %: 1440 mins: Winter	0.01	0.4	13.842
FEH: 100 years: +40 %: 15 mins: Summer	0.01	11.3	5.081
FEH: 100 years: +40 %: 15 mins: Winter	0.01	10.7	5.077
FEH: 100 years: +40 %: 30 mins: Summer	0.01	7.8	6.788
FEH: 100 years: +40 %: 30 mins: Winter	0.01	7.3	6.786
FEH: 100 years: +40 %: 60 mins: Summer	0.01	6.9	8.669
FEH: 100 years: +40 %: 60 mins: Winter	0.01	5.6	8.674
FEH: 100 years: +40 %: 120 mins: Summer	0.01	4.9	10.295
FEH: 100 years: +40 %: 120 mins: Winter	0.01	3.5	10.283
FEH: 100 years: +40 %: 240 mins: Summer	0.01	3.2	12.208
FEH: 100 years: +40 %: 240 mins: Winter	0.01	2.1	12.209
FEH: 100 years: +40 %: 360 mins: Summer	0.01	2.4	13.511
FEH: 100 years: +40 %: 360 mins: Winter	0.01	1.6	13.512
FEH: 100 years: +40 %: 480 mins: Summer	0.01	2.0	14.513
FEH: 100 years: +40 %: 480 mins: Winter	0.01	1.3	14.502
FEH: 100 years: +40 %: 960 mins: Summer	0.01	1.2	17.406

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
		Designed by: AS	Checked by: ML		Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address: Aegaea Limited			

FEH: 100 years: +40 %: 960 mins: Winter	0.01	0.8	17.388
FEH: 100 years: +40 %: 1440 mins: Summer	0.01	0.9	19.398
FEH: 100 years: +40 %: 1440 mins: Winter	0.01	0.6	19.410

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			



Summary Results for Catchment 4 - Rear hardstanding: Rank By: Max. Inflow

Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
FEH: 2 years: +0 %: 15 mins: Summer	0.00	1.0	0.413
FEH: 2 years: +0 %: 15 mins: Winter	0.00	0.9	0.413
FEH: 2 years: +0 %: 30 mins: Summer	0.00	0.6	0.545
FEH: 2 years: +0 %: 30 mins: Winter	0.00	0.6	0.545
FEH: 2 years: +0 %: 60 mins: Summer	0.00	0.6	0.684
FEH: 2 years: +0 %: 60 mins: Winter	0.00	0.4	0.684
FEH: 2 years: +0 %: 120 mins: Summer	0.00	0.4	0.948
FEH: 2 years: +0 %: 120 mins: Winter	0.00	0.3	0.942
FEH: 2 years: +0 %: 240 mins: Summer	0.00	0.3	1.242
FEH: 2 years: +0 %: 240 mins: Winter	0.00	0.2	1.230
FEH: 2 years: +0 %: 360 mins: Summer	0.00	0.3	1.398
FEH: 2 years: +0 %: 360 mins: Winter	0.00	0.2	1.410
FEH: 2 years: +0 %: 480 mins: Summer	0.00	0.2	1.548
FEH: 2 years: +0 %: 480 mins: Winter	0.00	0.1	1.506
FEH: 2 years: +0 %: 960 mins: Summer	0.00	0.1	1.794
FEH: 2 years: +0 %: 960 mins: Winter	0.00	0.1	1.788
FEH: 2 years: +0 %: 1440 mins: Summer	0.00	0.1	2.034
FEH: 2 years: +0 %: 1440 mins: Winter	0.00	0.1	2.016
FEH: 30 years: +0 %: 15 mins: Summer	0.00	2.2	0.940

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +0 %: 15 mins: Winter	0.00	2.0	0.940
FEH: 30 years: +0 %: 30 mins: Summer	0.00	1.4	1.253
FEH: 30 years: +0 %: 30 mins: Winter	0.00	1.4	1.253
FEH: 30 years: +0 %: 60 mins: Summer	0.00	1.3	1.601
FEH: 30 years: +0 %: 60 mins: Winter	0.00	1.0	1.601
FEH: 30 years: +0 %: 120 mins: Summer	0.00	0.9	1.937
FEH: 30 years: +0 %: 120 mins: Winter	0.00	0.7	1.938
FEH: 30 years: +0 %: 240 mins: Summer	0.00	0.6	2.334
FEH: 30 years: +0 %: 240 mins: Winter	0.00	0.4	2.334
FEH: 30 years: +0 %: 360 mins: Summer	0.00	0.5	2.574
FEH: 30 years: +0 %: 360 mins: Winter	0.00	0.3	2.586
FEH: 30 years: +0 %: 480 mins: Summer	0.00	0.4	2.748
FEH: 30 years: +0 %: 480 mins: Winter	0.00	0.2	2.760
FEH: 30 years: +0 %: 960 mins: Summer	0.00	0.2	3.258
FEH: 30 years: +0 %: 960 mins: Winter	0.00	0.1	3.282
FEH: 30 years: +0 %: 1440 mins: Summer	0.00	0.2	3.558
FEH: 30 years: +0 %: 1440 mins: Winter	0.00	0.1	3.588

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.9	1.285
FEH: 30 years: +35 %: 15 mins: Winter	0.00	2.7	1.284
FEH: 30 years: +35 %: 30 mins: Summer	0.00	2.0	1.707
FEH: 30 years: +35 %: 30 mins: Winter	0.00	1.8	1.700
FEH: 30 years: +35 %: 60 mins: Summer	0.00	1.7	2.160
FEH: 30 years: +35 %: 60 mins: Winter	0.00	1.4	2.157
FEH: 30 years: +35 %: 120 mins: Summer	0.00	1.2	2.621
FEH: 30 years: +35 %: 120 mins: Winter	0.00	0.9	2.621
FEH: 30 years: +35 %: 240 mins: Summer	0.00	0.8	3.156
FEH: 30 years: +35 %: 240 mins: Winter	0.00	0.6	3.156
FEH: 30 years: +35 %: 360 mins: Summer	0.00	0.6	3.492
FEH: 30 years: +35 %: 360 mins: Winter	0.00	0.4	3.480
FEH: 30 years: +35 %: 480 mins: Summer	0.00	0.5	3.738
FEH: 30 years: +35 %: 480 mins: Winter	0.00	0.3	3.756
FEH: 30 years: +35 %: 960 mins: Summer	0.00	0.3	4.398
FEH: 30 years: +35 %: 960 mins: Winter	0.00	0.2	4.356
FEH: 30 years: +35 %: 1440 mins: Summer	0.00	0.2	4.818

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		
		Approved By: OH			
		Company Address: Aegaea Limited			

FEH: 30 years: +35 %: 1440 mins: Winter	0.00	0.1	4.788
FEH: 100 years: +0 %: 15 mins: Summer	0.00	2.7	1.201
FEH: 100 years: +0 %: 15 mins: Winter	0.00	2.6	1.202
FEH: 100 years: +0 %: 30 mins: Summer	0.00	1.9	1.610
FEH: 100 years: +0 %: 30 mins: Winter	0.00	1.7	1.615
FEH: 100 years: +0 %: 60 mins: Summer	0.00	1.6	2.065
FEH: 100 years: +0 %: 60 mins: Winter	0.00	1.3	2.053
FEH: 100 years: +0 %: 120 mins: Summer	0.00	1.2	2.447
FEH: 100 years: +0 %: 120 mins: Winter	0.00	0.8	2.448
FEH: 100 years: +0 %: 240 mins: Summer	0.00	0.8	2.898
FEH: 100 years: +0 %: 240 mins: Winter	0.00	0.5	2.916
FEH: 100 years: +0 %: 360 mins: Summer	0.00	0.6	3.222
FEH: 100 years: +0 %: 360 mins: Winter	0.00	0.4	3.228
FEH: 100 years: +0 %: 480 mins: Summer	0.00	0.5	3.432
FEH: 100 years: +0 %: 480 mins: Winter	0.00	0.3	3.438
FEH: 100 years: +0 %: 960 mins: Summer	0.00	0.3	4.158
FEH: 100 years: +0 %: 960 mins: Winter	0.00	0.2	4.104

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ	Date: 09/03/2026		
	Designed by: AS	Checked by: ML	Approved By: OH
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Aegaea Limited		



FEH: 100 years: +0 %: 1440 mins: Summer	0.00	0.2	4.620
FEH: 100 years: +0 %: 1440 mins: Winter	0.00	0.1	4.530
FEH: 100 years: +40 %: 15 mins: Summer	0.00	3.8	1.687
FEH: 100 years: +40 %: 15 mins: Winter	0.00	3.6	1.687
FEH: 100 years: +40 %: 30 mins: Summer	0.00	2.6	2.255
FEH: 100 years: +40 %: 30 mins: Winter	0.00	2.4	2.254
FEH: 100 years: +40 %: 60 mins: Summer	0.00	2.3	2.888
FEH: 100 years: +40 %: 60 mins: Winter	0.00	1.9	2.886
FEH: 100 years: +40 %: 120 mins: Summer	0.00	1.6	3.426
FEH: 100 years: +40 %: 120 mins: Winter	0.00	1.2	3.422
FEH: 100 years: +40 %: 240 mins: Summer	0.00	1.0	4.061
FEH: 100 years: +40 %: 240 mins: Winter	0.00	0.7	4.062
FEH: 100 years: +40 %: 360 mins: Summer	0.00	0.8	4.488
FEH: 100 years: +40 %: 360 mins: Winter	0.00	0.5	4.494
FEH: 100 years: +40 %: 480 mins: Summer	0.00	0.6	4.824
FEH: 100 years: +40 %: 480 mins: Winter	0.00	0.4	4.824
FEH: 100 years: +40 %: 960 mins: Summer	0.00	0.4	5.790

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026			
Report Details: Type: Inflows Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

FEH: 100 years: +40 %: 960 mins: Winter	0.00	0.3	5.760
FEH: 100 years: +40 %: 1440 mins: Summer	0.00	0.3	6.462
FEH: 100 years: +40 %: 1440 mins: Winter	0.00	0.2	6.426

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			



Summary Results for Flow Control Chamber: Rank By: Max. Depth

Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FEH: 2 years: +0 %: 15 mins: Summer	122.00	120.40	120.643	0.243	1.0	0.275	0.000	0.4	0.475	OK
FEH: 2 years: +0 %: 15 mins: Winter	122.00	120.40	120.644	0.244	1.0	0.276	0.000	0.4	0.477	OK
FEH: 2 years: +0 %: 30 mins: Summer	122.00	120.40	120.659	0.259	2.4	0.293	0.000	0.4	1.055	OK
FEH: 2 years: +0 %: 30 mins: Winter	122.00	120.40	120.659	0.259	2.3	0.293	0.000	0.4	1.059	OK
FEH: 2 years: +0 %: 60 mins: Summer	122.00	120.40	120.672	0.272	1.3	0.308	0.000	0.4	2.218	OK
FEH: 2 years: +0 %: 60 mins: Winter	122.00	120.40	120.672	0.272	1.4	0.307	0.000	0.4	2.228	OK
FEH: 2 years: +0 %: 120 mins: Summer	122.00	120.40	120.688	0.288	1.0	0.326	0.000	0.4	4.670	OK
FEH: 2 years: +0 %: 120 mins: Winter	122.00	120.40	120.688	0.288	1.2	0.325	0.000	0.4	4.676	OK
FEH: 2 years: +0 %: 240 mins: Summer	122.00	120.40	120.693	0.293	1.0	0.331	0.000	0.4	7.487	OK
FEH: 2 years: +0 %: 240 mins: Winter	122.00	120.40	120.690	0.290	0.8	0.328	0.000	0.4	7.488	OK
FEH: 2 years: +0 %: 360 mins: Summer	122.00	120.40	120.689	0.289	0.8	0.327	0.000	0.4	8.596	OK
FEH: 2 years: +0 %: 360 mins: Winter	122.00	120.40	120.681	0.281	0.7	0.318	0.000	0.4	8.596	OK
FEH: 2 years: +0 %: 480 mins: Summer	122.00	120.40	120.683	0.283	0.7	0.320	0.000	0.4	9.375	OK
FEH: 2 years: +0 %: 480 mins: Winter	122.00	120.40	120.670	0.270	0.6	0.305	0.000	0.4	9.321	OK
FEH: 2 years: +0 %: 960 mins: Summer	122.00	120.40	120.652	0.252	0.6	0.285	0.000	0.4	11.278	OK
FEH: 2 years: +0 %: 960 mins: Winter	122.00	120.40	120.625	0.225	0.5	0.254	0.000	0.4	11.152	OK
FEH: 2 years: +0 %: 1440 mins: Summer	122.00	120.40	120.628	0.228	0.6	0.258	0.000	0.4	12.575	OK
FEH: 2 years: +0 %: 1440 mins: Winter	122.00	120.40	120.459	0.059	0.4	0.066	0.000	0.4	12.419	OK
FEH: 30 years: +0 %: 15 mins: Summer	122.00	120.40	120.721	0.321	4.6	0.363	0.000	0.4	0.599	OK
FEH: 30 years: +0 %: 15 mins: Winter	122.00	120.40	120.720	0.320	4.5	0.362	0.000	0.4	0.600	OK
FEH: 30 years: +0 %: 30 mins: Summer	122.00	120.40	120.765	0.365	3.3	0.413	0.000	0.4	1.307	OK
FEH: 30 years: +0 %: 30 mins: Winter	122.00	120.40	120.765	0.365	3.4	0.413	0.000	0.4	1.311	OK
FEH: 30 years: +0 %: 60 mins: Summer	122.00	120.40	120.808	0.408	1.7	0.461	0.000	0.5	2.812	OK
FEH: 30 years: +0 %: 60 mins: Winter	122.00	120.40	120.808	0.408	1.0	0.461	0.000	0.5	2.809	OK
FEH: 30 years: +0 %: 120 mins: Summer	122.00	120.40	120.829	0.429	0.8	0.485	0.000	0.5	5.847	OK
FEH: 30 years: +0 %: 120 mins: Winter	122.00	120.40	120.831	0.431	1.1	0.487	0.000	0.5	5.840	OK
FEH: 30 years: +0 %: 240 mins: Summer	122.00	120.40	120.828	0.428	0.7	0.484	0.000	0.5	11.512	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ				Date: 09/03/2026						
Report Details: Type: Junctions Summary Storm Phase: Phase				Designed by: AS	Checked by: ML	Approved By: OH				
				Company Address: Aegaea Limited						

FEH: 30 years: +0 %: 240 mins: Winter	122.0 00	120.4 00	120.82 9	0.429	0.8	0.485	0.000	0.5	11.487	OK
FEH: 30 years: +0 %: 360 mins: Summer	122.0 00	120.4 00	120.81 9	0.419	0.8	0.473	0.000	0.5	15.750	OK
FEH: 30 years: +0 %: 360 mins: Winter	122.0 00	120.4 00	120.81 8	0.418	0.7	0.472	0.000	0.5	15.796	OK
FEH: 30 years: +0 %: 480 mins: Summer	122.0 00	120.4 00	120.80 9	0.409	0.7	0.463	0.000	0.5	16.976	OK
FEH: 30 years: +0 %: 480 mins: Winter	122.0 00	120.4 00	120.80 3	0.403	0.7	0.456	0.000	0.5	16.964	OK
FEH: 30 years: +0 %: 960 mins: Summer	122.0 00	120.4 00	120.77 1	0.371	0.6	0.419	0.000	0.4	20.018	OK
FEH: 30 years: +0 %: 960 mins: Winter	122.0 00	120.4 00	120.74 5	0.345	0.6	0.390	0.000	0.4	20.138	OK
FEH: 30 years: +0 %: 1440 mins: Summer	122.0 00	120.4 00	120.73 5	0.335	0.6	0.379	0.000	0.4	21.869	OK
FEH: 30 years: +0 %: 1440 mins: Winter	122.0 00	120.4 00	120.69 5	0.295	0.5	0.334	0.000	0.4	22.074	OK
FEH: 30 years: +35 %: 15 mins: Summer	122.0 00	120.4 00	120.77 4	0.374	0.6	0.423	0.000	0.4	0.640	OK
FEH: 30 years: +35 %: 15 mins: Winter	122.0 00	120.4 00	120.77 3	0.373	0.6	0.422	0.000	0.4	0.647	OK
FEH: 30 years: +35 %: 30 mins: Summer	122.0 00	120.4 00	120.83 4	0.434	0.8	0.490	0.000	0.5	1.426	OK
FEH: 30 years: +35 %: 30 mins: Winter	122.0 00	120.4 00	120.83 3	0.433	2.1	0.490	0.000	0.5	1.427	OK
FEH: 30 years: +35 %: 60 mins: Summer	122.0 00	120.4 00	120.89 5	0.495	1.3	0.560	0.000	0.5	3.098	OK
FEH: 30 years: +35 %: 60 mins: Winter	122.0 00	120.4 00	120.89 4	0.494	1.6	0.558	0.000	0.5	3.091	OK
FEH: 30 years: +35 %: 120 mins: Summer	122.0 00	120.4 00	120.93 0	0.530	1.0	0.600	0.000	0.5	6.492	OK
FEH: 30 years: +35 %: 120 mins: Winter	122.0 00	120.4 00	120.93 3	0.533	1.1	0.603	0.000	0.5	6.478	OK
FEH: 30 years: +35 %: 240 mins: Summer	122.0 00	120.4 00	120.94 0	0.540	0.7	0.610	0.000	0.5	12.977	OK
FEH: 30 years: +35 %: 240 mins: Winter	122.0 00	120.4 00	120.94 3	0.543	0.7	0.614	0.000	0.5	12.935	OK
FEH: 30 years: +35 %: 360 mins: Summer	122.0 00	120.4 00	120.93 0	0.530	0.6	0.599	0.000	0.5	18.734	OK
FEH: 30 years: +35 %: 360 mins: Winter	122.0 00	120.4 00	120.93 1	0.531	0.7	0.601	0.000	0.5	18.697	OK
FEH: 30 years: +35 %: 480 mins: Summer	122.0 00	120.4 00	120.91 9	0.519	0.6	0.587	0.000	0.5	22.878	OK
FEH: 30 years: +35 %: 480 mins: Winter	122.0 00	120.4 00	120.91 7	0.517	0.7	0.584	0.000	0.5	22.878	OK
FEH: 30 years: +35 %: 960 mins: Summer	122.0 00	120.4 00	120.87 7	0.477	0.6	0.540	0.000	0.5	27.058	OK
FEH: 30 years: +35 %: 960 mins: Winter	122.0 00	120.4 00	120.85 5	0.455	0.6	0.514	0.000	0.5	26.957	OK
FEH: 30 years: +35 %: 1440 mins: Summer	122.0 00	120.4 00	120.83 7	0.437	0.6	0.495	0.000	0.5	29.697	OK
FEH: 30 years: +35 %: 1440 mins: Winter	122.0 00	120.4 00	120.79 7	0.397	0.5	0.449	0.000	0.5	29.697	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ				Date: 09/03/2026						
Report Details: Type: Junctions Summary Storm Phase: Phase				Designed by: AS	Checked by: ML	Approved By: OH				
				Company Address: Aegaea Limited						

FEH: 100 years: +0 %: 15 mins: Summer	122.000	120.400	120.761	0.361	0.6	0.408	0.000	0.4	0.634	OK
FEH: 100 years: +0 %: 15 mins: Winter	122.000	120.400	120.760	0.360	0.6	0.407	0.000	0.4	0.636	OK
FEH: 100 years: +0 %: 30 mins: Summer	122.000	120.400	120.820	0.420	0.7	0.475	0.000	0.5	1.397	OK
FEH: 100 years: +0 %: 30 mins: Winter	122.000	120.400	120.820	0.420	0.8	0.475	0.000	0.5	1.400	OK
FEH: 100 years: +0 %: 60 mins: Summer	122.000	120.400	120.880	0.480	1.2	0.542	0.000	0.5	3.051	OK
FEH: 100 years: +0 %: 60 mins: Winter	122.000	120.400	120.878	0.478	1.5	0.540	0.000	0.5	3.043	OK
FEH: 100 years: +0 %: 120 mins: Summer	122.000	120.400	120.903	0.503	0.9	0.569	0.000	0.5	6.329	OK
FEH: 100 years: +0 %: 120 mins: Winter	122.000	120.400	120.905	0.505	1.0	0.571	0.000	0.5	6.313	OK
FEH: 100 years: +0 %: 240 mins: Summer	122.000	120.400	120.904	0.504	0.7	0.570	0.000	0.5	12.556	OK
FEH: 100 years: +0 %: 240 mins: Winter	122.000	120.400	120.908	0.508	0.8	0.574	0.000	0.5	12.532	OK
FEH: 100 years: +0 %: 360 mins: Summer	122.000	120.400	120.896	0.496	0.7	0.561	0.000	0.5	18.058	OK
FEH: 100 years: +0 %: 360 mins: Winter	122.000	120.400	120.896	0.496	0.7	0.561	0.000	0.5	18.032	OK
FEH: 100 years: +0 %: 480 mins: Summer	122.000	120.400	120.886	0.486	0.7	0.550	0.000	0.5	21.150	OK
FEH: 100 years: +0 %: 480 mins: Winter	122.000	120.400	120.882	0.482	0.7	0.545	0.000	0.5	21.151	OK
FEH: 100 years: +0 %: 960 mins: Summer	122.000	120.400	120.853	0.453	0.6	0.512	0.000	0.5	25.481	OK
FEH: 100 years: +0 %: 960 mins: Winter	122.000	120.400	120.829	0.429	0.6	0.485	0.000	0.5	25.404	OK
FEH: 100 years: +0 %: 1440 mins: Summer	122.000	120.400	120.820	0.420	0.6	0.475	0.000	0.5	28.383	OK
FEH: 100 years: +0 %: 1440 mins: Winter	122.000	120.400	120.779	0.379	0.5	0.429	0.000	0.5	28.288	OK
FEH: 100 years: +40 %: 15 mins: Summer	122.000	120.400	120.833	0.433	2.3	0.490	0.000	0.5	0.688	OK
FEH: 100 years: +40 %: 15 mins: Winter	122.000	120.400	120.832	0.432	1.1	0.489	0.000	0.5	0.690	OK
FEH: 100 years: +40 %: 30 mins: Summer	122.000	120.400	120.916	0.516	1.3	0.584	0.000	0.5	1.555	OK
FEH: 100 years: +40 %: 30 mins: Winter	122.000	120.400	120.916	0.516	1.6	0.584	0.000	0.5	1.557	OK
FEH: 100 years: +40 %: 60 mins: Summer	122.000	120.400	121.003	0.603	1.1	0.682	0.000	0.6	3.424	OK
FEH: 100 years: +40 %: 60 mins: Winter	122.000	120.400	121.003	0.603	1.2	0.682	0.000	0.6	3.418	OK
FEH: 100 years: +40 %: 120 mins: Summer	122.000	120.400	121.053	0.653	1.1	0.738	0.000	0.6	7.174	OK
FEH: 100 years: +40 %: 120 mins: Winter	122.000	120.400	121.054	0.654	1.2	0.740	0.000	0.6	7.146	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		
Report Details: Type: Junctions Summary Storm Phase: Phase		Designed by: AS	Checked by: ML	Approved By: OH
		Company Address: Aegaea Limited		



FEH: 100 years: +40 %: 240 mins: Summer	122.0 00	120.4 00	121.06 8	0.668	0.7	0.756	0.000	0.6	14.405	OK
FEH: 100 years: +40 %: 240 mins: Winter	122.0 00	120.4 00	121.07 4	0.674	0.7	0.763	0.000	0.6	14.359	OK
FEH: 100 years: +40 %: 360 mins: Summer	122.0 00	120.4 00	121.06 2	0.662	0.6	0.749	0.000	0.6	21.040	OK
FEH: 100 years: +40 %: 360 mins: Winter	122.0 00	120.4 00	121.06 6	0.666	0.6	0.753	0.000	0.6	20.962	OK
FEH: 100 years: +40 %: 480 mins: Summer	122.0 00	120.4 00	121.05 1	0.651	0.6	0.737	0.000	0.6	26.912	OK
FEH: 100 years: +40 %: 480 mins: Winter	122.0 00	120.4 00	121.05 2	0.652	0.6	0.737	0.000	0.6	26.862	OK
FEH: 100 years: +40 %: 960 mins: Summer	122.0 00	120.4 00	121.01 6	0.616	0.6	0.696	0.000	0.6	35.634	OK
FEH: 100 years: +40 %: 960 mins: Winter	122.0 00	120.4 00	120.99 8	0.598	0.6	0.676	0.000	0.6	35.534	OK
FEH: 100 years: +40 %: 1440 mins: Summer	122.0 00	120.4 00	120.98 0	0.580	0.6	0.656	0.000	0.6	39.753	OK
FEH: 100 years: +40 %: 1440 mins: Winter	122.0 00	120.4 00	120.94 3	0.543	0.6	0.614	0.000	0.5	39.707	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			



Summary Results for Permeable Surfacing: Rank By: Max. Avg. Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
FEH: 2 years: +0 %: 15 mins: Summer	126.811	126.801	0.031	0.051	1.4	0.336	0.000	0.000	0.7	0.507	81.526	OK
FEH: 2 years: +0 %: 15 mins: Winter	126.810	126.799	0.030	0.049	1.3	0.331	0.000	0.000	0.7	0.506	81.776	OK
FEH: 2 years: +0 %: 30 mins: Summer	126.809	126.797	0.029	0.047	0.9	0.343	0.000	0.000	0.7	0.749	81.135	OK
FEH: 2 years: +0 %: 30 mins: Winter	126.808	126.796	0.028	0.046	0.8	0.333	0.000	0.000	0.7	0.749	81.659	OK
FEH: 2 years: +0 %: 60 mins: Summer	126.807	126.796	0.027	0.046	0.8	0.330	0.000	0.000	0.7	0.982	81.832	OK
FEH: 2 years: +0 %: 60 mins: Winter	126.804	126.792	0.024	0.042	0.6	0.295	0.000	0.000	0.6	0.970	83.784	OK
FEH: 2 years: +0 %: 120 mins: Summer	126.804	126.793	0.024	0.043	0.6	0.300	0.000	0.000	0.6	1.341	83.476	OK
FEH: 2 years: +0 %: 120 mins: Winter	126.800	126.786	0.020	0.036	0.5	0.251	0.000	0.000	0.4	1.341	86.175	OK
FEH: 2 years: +0 %: 240 mins: Summer	126.800	126.785	0.020	0.035	0.4	0.246	0.000	0.000	0.4	1.745	86.449	OK
FEH: 2 years: +0 %: 240 mins: Winter	126.796	126.778	0.016	0.028	0.3	0.199	0.000	0.000	0.3	1.739	89.071	OK
FEH: 2 years: +0 %: 360 mins: Summer	126.797	126.780	0.017	0.030	0.3	0.212	0.000	0.000	0.3	1.997	88.306	OK
FEH: 2 years: +0 %: 360 mins: Winter	126.794	126.773	0.014	0.023	0.2	0.167	0.000	0.000	0.2	1.997	90.808	OK
FEH: 2 years: +0 %: 480 mins: Summer	126.795	126.777	0.015	0.027	0.3	0.189	0.000	0.000	0.3	2.171	89.571	OK
FEH: 2 years: +0 %: 480 mins: Winter	126.792	126.771	0.012	0.021	0.2	0.148	0.000	0.000	0.2	2.153	91.854	OK
FEH: 2 years: +0 %: 960 mins: Summer	126.792	126.770	0.012	0.020	0.2	0.143	0.000	0.000	0.2	2.646	92.147	OK
FEH: 2 years: +0 %: 960 mins: Winter	126.789	126.765	0.009	0.015	0.1	0.105	0.000	0.000	0.1	2.604	94.223	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

FEH: 2 years: +0 %: 1440 mins: Summer	126.79 0	126.76 6	0.010	0.016	0.1	0.117	0.000	0.000	0.1	2.856	93.576	OK
FEH: 2 years: +0 %: 1440 mins: Winter	126.78 7	126.76 2	0.007	0.012	0.1	0.085	0.000	0.000	0.1	2.826	95.309	OK
FEH: 30 years: +0 %: 15 mins: Summer	126.85 3	126.85 2	0.073	0.102	3.1	0.786	0.000	0.000	1.2	1.173	56.711	OK
FEH: 30 years: +0 %: 15 mins: Winter	126.85 1	126.85 0	0.071	0.100	2.9	0.768	0.000	0.000	1.2	1.170	57.748	OK
FEH: 30 years: +0 %: 30 mins: Summer	126.85 3	126.85 2	0.073	0.102	2.1	0.787	0.000	0.000	1.2	1.741	56.667	OK
FEH: 30 years: +0 %: 30 mins: Winter	126.85 0	126.84 9	0.070	0.099	1.9	0.765	0.000	0.000	1.2	1.742	57.872	OK
FEH: 30 years: +0 %: 60 mins: Summer	126.85 0	126.84 9	0.070	0.099	1.8	0.760	0.000	0.000	1.2	2.262	58.188	OK
FEH: 30 years: +0 %: 60 mins: Winter	126.84 0	126.83 8	0.060	0.088	1.5	0.667	0.000	0.000	1.1	2.257	63.300	OK
FEH: 30 years: +0 %: 120 mins: Summer	126.83 1	126.82 9	0.051	0.079	1.3	0.589	0.000	0.000	1.0	2.748	67.602	OK
FEH: 30 years: +0 %: 120 mins: Winter	126.81 5	126.81 2	0.035	0.062	0.9	0.440	0.000	0.000	0.8	2.755	75.753	OK
FEH: 30 years: +0 %: 240 mins: Summer	126.81 0	126.80 7	0.030	0.057	0.9	0.388	0.000	0.000	0.8	3.316	78.627	OK
FEH: 30 years: +0 %: 240 mins: Winter	126.80 3	126.79 3	0.023	0.043	0.6	0.297	0.000	0.000	0.6	3.316	83.629	OK
FEH: 30 years: +0 %: 360 mins: Summer	126.80 5	126.79 5	0.025	0.045	0.6	0.315	0.000	0.000	0.6	3.659	82.667	OK
FEH: 30 years: +0 %: 360 mins: Winter	126.80 0	126.78 5	0.020	0.035	0.4	0.247	0.000	0.000	0.4	3.683	86.413	OK
FEH: 30 years: +0 %: 480 mins: Summer	126.80 2	126.79 0	0.022	0.040	0.5	0.279	0.000	0.000	0.5	3.941	84.655	OK
FEH: 30 years: +0 %: 480 mins: Winter	126.79 7	126.78 1	0.017	0.031	0.3	0.216	0.000	0.000	0.3	3.923	88.086	OK
FEH: 30 years: +0 %: 960 mins: Summer	126.79 6	126.77 9	0.016	0.029	0.3	0.202	0.000	0.000	0.3	4.631	88.904	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

FEH: 30 years: +0 %: 960 mins: Winter	126.79 3	126.77 1	0.013	0.021	0.2	0.153	0.000	0.000	0.2	4.673	91.567	OK
FEH: 30 years: +0 %: 1440 mins: Summer	126.79 4	126.77 4	0.014	0.024	0.2	0.167	0.000	0.000	0.2	5.057	90.793	OK
FEH: 30 years: +0 %: 1440 mins: Winter	126.79 1	126.76 8	0.011	0.018	0.1	0.128	0.000	0.000	0.2	5.160	92.973	OK
FEH: 30 years: +35 %: 15 mins: Summer	126.89 2	126.89 0	0.112	0.140	4.2	1.135	0.000	0.000	1.4	1.554	37.517	OK
FEH: 30 years: +35 %: 15 mins: Winter	126.88 9	126.88 6	0.109	0.136	3.9	1.105	0.000	0.000	1.4	1.554	39.154	OK
FEH: 30 years: +35 %: 30 mins: Summer	126.89 6	126.89 4	0.116	0.144	2.8	1.172	0.000	0.000	1.5	2.386	35.472	OK
FEH: 30 years: +35 %: 30 mins: Winter	126.89 2	126.89 0	0.112	0.140	2.6	1.138	0.000	0.000	1.4	2.384	37.333	OK
FEH: 30 years: +35 %: 60 mins: Summer	126.89 1	126.88 9	0.111	0.139	2.5	1.127	0.000	0.000	1.4	3.081	37.935	OK
FEH: 30 years: +35 %: 60 mins: Winter	126.87 6	126.87 3	0.096	0.123	2.0	0.984	0.000	0.000	1.3	3.065	45.851	OK
FEH: 30 years: +35 %: 120 mins: Summer	126.86 2	126.86 0	0.082	0.110	1.8	0.863	0.000	0.000	1.3	3.719	52.506	OK
FEH: 30 years: +35 %: 120 mins: Winter	126.83 9	126.83 7	0.059	0.087	1.3	0.655	0.000	0.000	1.1	3.738	63.946	OK
FEH: 30 years: +35 %: 240 mins: Summer	126.82 9	126.82 6	0.049	0.076	1.2	0.562	0.000	0.000	1.0	4.479	69.039	OK
FEH: 30 years: +35 %: 240 mins: Winter	126.80 8	126.80 5	0.028	0.055	0.8	0.371	0.000	0.000	0.8	4.485	79.568	OK
FEH: 30 years: +35 %: 360 mins: Summer	126.81 2	126.80 9	0.032	0.059	0.9	0.410	0.000	0.000	0.8	4.954	77.419	OK
FEH: 30 years: +35 %: 360 mins: Winter	126.80 3	126.79 3	0.023	0.043	0.6	0.299	0.000	0.000	0.6	4.973	83.558	OK
FEH: 30 years: +35 %: 480 mins: Summer	126.80 6	126.79 9	0.026	0.049	0.7	0.339	0.000	0.000	0.7	5.309	81.310	OK
FEH: 30 years: +35 %: 480 mins: Winter	126.80 1	126.78 8	0.021	0.038	0.5	0.261	0.000	0.000	0.5	5.297	85.609	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

FEH: 30 years: +35 %: 960 mins: Summer	126.80 0	126.78 5	0.020	0.035	0.4	0.246	0.000	0.000	0.4	6.275	86.436	OK
FEH: 30 years: +35 %: 960 mins: Winter	126.79 5	126.77 6	0.015	0.026	0.3	0.185	0.000	0.000	0.3	6.251	89.807	OK
FEH: 30 years: +35 %: 1440 mins: Summer	126.79 6	126.77 9	0.016	0.029	0.3	0.202	0.000	0.000	0.3	6.899	88.884	OK
FEH: 30 years: +35 %: 1440 mins: Winter	126.79 3	126.77 1	0.013	0.021	0.2	0.153	0.000	0.000	0.2	6.917	91.569	OK
FEH: 100 years: +0 %: 15 mins: Summer	126.88 2	126.88 0	0.102	0.130	3.9	1.051	0.000	0.000	1.4	1.468	42.168	OK
FEH: 100 years: +0 %: 15 mins: Winter	126.87 9	126.87 7	0.099	0.127	3.7	1.019	0.000	0.000	1.4	1.464	43.898	OK
FEH: 100 years: +0 %: 30 mins: Summer	126.88 7	126.88 6	0.107	0.136	2.6	1.100	0.000	0.000	1.4	2.261	39.449	OK
FEH: 100 years: +0 %: 30 mins: Winter	126.88 3	126.88 1	0.103	0.131	2.5	1.063	0.000	0.000	1.4	2.253	41.497	OK
FEH: 100 years: +0 %: 60 mins: Summer	126.88 3	126.88 1	0.103	0.131	2.3	1.061	0.000	0.000	1.4	2.937	41.600	OK
FEH: 100 years: +0 %: 60 mins: Winter	126.86 9	126.86 6	0.089	0.116	1.9	0.923	0.000	0.000	1.3	2.916	49.164	OK
FEH: 100 years: +0 %: 120 mins: Summer	126.85 3	126.85 2	0.073	0.102	1.6	0.788	0.000	0.000	1.2	3.467	56.602	OK
FEH: 100 years: +0 %: 120 mins: Winter	126.83 3	126.83 0	0.053	0.080	1.2	0.597	0.000	0.000	1.0	3.462	67.146	OK
FEH: 100 years: +0 %: 240 mins: Summer	126.82 3	126.82 0	0.043	0.070	1.1	0.505	0.000	0.000	0.9	4.131	72.196	OK
FEH: 100 years: +0 %: 240 mins: Winter	126.80 6	126.80 0	0.026	0.050	0.7	0.344	0.000	0.000	0.7	4.131	81.083	OK
FEH: 100 years: +0 %: 360 mins: Summer	126.80 8	126.80 5	0.028	0.055	0.8	0.373	0.000	0.000	0.8	4.582	79.449	OK
FEH: 100 years: +0 %: 360 mins: Winter	126.80 2	126.79 1	0.022	0.041	0.5	0.282	0.000	0.000	0.5	4.547	84.479	OK
FEH: 100 years: +0 %: 480 mins: Summer	126.80 5	126.79 6	0.025	0.046	0.7	0.321	0.000	0.000	0.7	4.919	82.308	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: AS	Checked by: ML		Approved By: OH
		Company Address: Aegaea Limited			

FEH: 100 years: +0 %: 480 mins: Winter	126.80 0	126.78 5	0.020	0.035	0.4	0.247	0.000	0.000	0.4	4.925	86.393	OK
FEH: 100 years: +0 %: 960 mins: Summer	126.79 9	126.78 4	0.019	0.034	0.4	0.237	0.000	0.000	0.4	5.891	86.965	OK
FEH: 100 years: +0 %: 960 mins: Winter	126.79 5	126.77 6	0.015	0.026	0.3	0.181	0.000	0.000	0.3	5.885	90.058	OK
FEH: 100 years: +0 %: 1440 mins: Summer	126.79 6	126.77 8	0.016	0.028	0.3	0.198	0.000	0.000	0.3	6.587	89.124	OK
FEH: 100 years: +0 %: 1440 mins: Winter	126.79 2	126.77 1	0.012	0.021	0.2	0.148	0.000	0.000	0.2	6.509	91.836	OK
FEH: 100 years: +40 %: 15 mins: Summer	126.93 9	126.93 6	0.159	0.186	5.4	1.555	0.000	0.000	1.7	1.921	14.372	OK
FEH: 100 years: +40 %: 15 mins: Winter	126.93 4	126.93 1	0.154	0.181	5.1	1.510	0.000	0.000	1.7	1.916	16.884	OK
FEH: 100 years: +40 %: 30 mins: Summer	126.94 9	126.94 6	0.169	0.196	3.7	1.651	0.000	0.000	1.8	3.152	9.118	OK
FEH: 100 years: +40 %: 30 mins: Winter	126.94 4	126.94 1	0.164	0.191	3.5	1.604	0.000	0.000	1.7	3.150	11.719	OK
FEH: 100 years: +40 %: 60 mins: Summer	126.94 5	126.94 2	0.165	0.192	3.3	1.608	0.000	0.000	1.7	4.108	11.483	OK
FEH: 100 years: +40 %: 60 mins: Winter	126.92 6	126.92 2	0.146	0.172	2.6	1.428	0.000	0.000	1.6	4.098	21.382	OK
FEH: 100 years: +40 %: 120 mins: Summer	126.90 3	126.90 0	0.123	0.150	2.3	1.229	0.000	0.000	1.5	4.882	32.319	OK
FEH: 100 years: +40 %: 120 mins: Winter	126.87 2	126.87 0	0.092	0.120	1.7	0.957	0.000	0.000	1.3	4.866	47.328	OK
FEH: 100 years: +40 %: 240 mins: Summer	126.85 4	126.85 2	0.074	0.102	1.5	0.794	0.000	0.000	1.2	5.762	56.301	OK
FEH: 100 years: +40 %: 240 mins: Winter	126.82 5	126.82 2	0.045	0.072	1.0	0.524	0.000	0.000	0.9	5.775	71.151	OK
FEH: 100 years: +40 %: 360 mins: Summer	126.83 0	126.82 7	0.050	0.077	1.1	0.573	0.000	0.000	1.0	6.382	68.458	OK
FEH: 100 years: +40 %: 360 mins: Winter	126.80 7	126.80 3	0.027	0.053	0.7	0.360	0.000	0.000	0.7	6.401	80.182	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		
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		Company Address: Aegaea Limited		



FEH: 100 years: +40 %: 480 mins: Summer	126.81 6	126.81 3	0.036	0.063	0.9	0.449	0.000	0.000	0.9	6.863	75.299	OK
FEH: 100 years: +40 %: 480 mins: Winter	126.80 4	126.79 4	0.024	0.044	0.6	0.306	0.000	0.000	0.6	6.881	83.177	OK
FEH: 100 years: +40 %: 960 mins: Summer	126.80 3	126.79 2	0.023	0.042	0.6	0.293	0.000	0.000	0.6	8.243	83.867	OK
FEH: 100 years: +40 %: 960 mins: Winter	126.79 8	126.78 2	0.018	0.032	0.4	0.222	0.000	0.000	0.4	8.225	87.776	OK
FEH: 100 years: +40 %: 1440 mins: Summer	126.79 9	126.78 5	0.019	0.035	0.4	0.244	0.000	0.000	0.4	9.233	86.542	OK
FEH: 100 years: +40 %: 1440 mins: Winter	126.79 5	126.77 6	0.015	0.026	0.3	0.185	0.000	0.000	0.3	9.228	89.811	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ				Date: 09/03/2026				
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				Company Address: Aegaea Limited				



Summary Results for Cellular Storage: Rank By: Max. Avg. Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
FEH: 2 years: +0 %: 15 mins: Summer	120.643	120.643	0.043	0.043	4.7	1.591	0.000	0.000	1.0	0.970	91.810	OK
FEH: 2 years: +0 %: 15 mins: Winter	120.643	120.643	0.043	0.043	4.5	1.588	0.000	0.000	1.0	0.971	91.825	OK
FEH: 2 years: +0 %: 30 mins: Summer	120.660	120.660	0.060	0.060	3.6	2.206	0.000	0.000	2.4	1.559	88.643	OK
FEH: 2 years: +0 %: 30 mins: Winter	120.659	120.659	0.059	0.059	3.4	2.199	0.000	0.000	2.3	1.564	88.681	OK
FEH: 2 years: +0 %: 60 mins: Summer	120.672	120.672	0.072	0.072	3.3	2.678	0.000	0.000	1.3	2.713	86.215	OK
FEH: 2 years: +0 %: 60 mins: Winter	120.672	120.672	0.072	0.072	2.6	2.662	0.000	0.000	1.4	2.723	86.295	OK
FEH: 2 years: +0 %: 120 mins: Summer	120.689	120.689	0.089	0.089	2.7	3.282	0.000	0.000	1.0	5.130	83.105	OK
FEH: 2 years: +0 %: 120 mins: Winter	120.688	120.688	0.088	0.088	2.0	3.248	0.000	0.000	1.2	5.135	83.282	OK
FEH: 2 years: +0 %: 240 mins: Summer	120.693	120.693	0.093	0.093	1.9	3.451	0.000	0.000	1.0	7.493	82.233	OK
FEH: 2 years: +0 %: 240 mins: Winter	120.690	120.690	0.090	0.090	1.3	3.325	0.000	0.000	0.8	7.493	82.883	OK
FEH: 2 years: +0 %: 360 mins: Summer	120.689	120.689	0.089	0.089	1.5	3.301	0.000	0.000	0.8	8.599	83.005	OK
FEH: 2 years: +0 %: 360 mins: Winter	120.682	120.682	0.082	0.082	1.0	3.021	0.000	0.000	0.7	8.599	84.446	OK
FEH: 2 years: +0 %: 480 mins: Summer	120.683	120.683	0.083	0.083	1.3	3.065	0.000	0.000	0.7	9.378	84.223	OK
FEH: 2 years: +0 %: 480 mins: Winter	120.670	120.670	0.070	0.070	0.8	2.594	0.000	0.000	0.6	9.324	86.648	OK
FEH: 2 years: +0 %: 960 mins: Summer	120.652	120.652	0.052	0.052	0.8	1.932	0.000	0.000	0.6	11.279	90.052	OK
FEH: 2 years: +0 %: 960 mins: Winter	120.625	120.625	0.025	0.025	0.5	0.919	0.000	0.000	0.5	11.153	95.269	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
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		Company Address: Aegaea Limited			

FEH: 2 years: +0 %: 1440 mins: Summer	120.62 8	120.62 8	0.028	0.028	0.6	1.045	0.000	0.000	0.6	12.576	94.622	OK
FEH: 2 years: +0 %: 1440 mins: Winter	120.61 4	120.61 4	0.014	0.014	0.4	0.517	0.000	0.000	0.4	12.420	97.339	OK
FEH: 30 years: +0 %: 15 mins: Summer	120.72 1	120.72 1	0.121	0.121	11.2	4.473	0.000	0.000	4.6	1.188	76.973	OK
FEH: 30 years: +0 %: 15 mins: Winter	120.72 1	120.72 1	0.121	0.121	10.5	4.466	0.000	0.000	4.5	1.189	77.008	OK
FEH: 30 years: +0 %: 30 mins: Summer	120.76 5	120.76 5	0.165	0.165	8.0	6.117	0.000	0.000	3.3	1.939	68.512	OK
FEH: 30 years: +0 %: 30 mins: Winter	120.76 5	120.76 5	0.165	0.165	7.6	6.113	0.000	0.000	3.4	1.943	68.528	OK
FEH: 30 years: +0 %: 60 mins: Summer	120.80 8	120.80 8	0.208	0.208	7.2	7.710	0.000	0.000	1.7	3.465	60.310	OK
FEH: 30 years: +0 %: 60 mins: Winter	120.80 8	120.80 8	0.208	0.208	5.9	7.705	0.000	0.000	1.0	3.462	60.334	OK
FEH: 30 years: +0 %: 120 mins: Summer	120.82 9	120.82 9	0.229	0.229	5.3	8.492	0.000	0.000	0.8	6.472	56.283	OK
FEH: 30 years: +0 %: 120 mins: Winter	120.83 1	120.83 1	0.231	0.231	4.0	8.562	0.000	0.000	1.1	6.465	55.923	OK
FEH: 30 years: +0 %: 240 mins: Summer	120.82 8	120.82 8	0.228	0.228	3.6	8.464	0.000	0.000	0.7	12.035	56.429	OK
FEH: 30 years: +0 %: 240 mins: Winter	120.82 9	120.82 9	0.229	0.229	2.5	8.494	0.000	0.000	0.8	12.012	56.274	OK
FEH: 30 years: +0 %: 360 mins: Summer	120.81 9	120.81 9	0.219	0.219	2.8	8.107	0.000	0.000	0.8	15.764	58.266	OK
FEH: 30 years: +0 %: 360 mins: Winter	120.81 8	120.81 8	0.218	0.218	1.9	8.071	0.000	0.000	0.7	15.810	58.449	OK
FEH: 30 years: +0 %: 480 mins: Summer	120.80 9	120.80 9	0.209	0.209	2.3	7.754	0.000	0.000	0.7	16.979	60.085	OK
FEH: 30 years: +0 %: 480 mins: Winter	120.80 3	120.80 3	0.203	0.203	1.5	7.523	0.000	0.000	0.7	16.967	61.273	OK
FEH: 30 years: +0 %: 960 mins: Summer	120.77 1	120.77 1	0.171	0.171	1.4	6.334	0.000	0.000	0.6	20.020	67.390	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ			Date: 09/03/2026			 water, civils and environment		
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			Company Address: Aegaea Limited					

FEH: 30 years: +0 %: 960 mins: Winter	120.74 5	120.74 5	0.145	0.145	0.9	5.374	0.000	0.000	0.6	20.140	72.335	OK
FEH: 30 years: +0 %: 1440 mins: Summer	120.73 6	120.73 6	0.136	0.136	1.0	5.024	0.000	0.000	0.6	21.870	74.137	OK
FEH: 30 years: +0 %: 1440 mins: Winter	120.69 5	120.69 5	0.095	0.095	0.6	3.538	0.000	0.000	0.5	22.074	81.789	OK
FEH: 30 years: +35 %: 15 mins: Summer	120.77 4	120.77 4	0.174	0.174	16.8	6.443	0.000	0.000	0.6	1.289	66.830	OK
FEH: 30 years: +35 %: 15 mins: Winter	120.77 3	120.77 3	0.173	0.173	15.7	6.427	0.000	0.000	0.6	1.292	66.915	OK
FEH: 30 years: +35 %: 30 mins: Summer	120.83 4	120.83 4	0.234	0.234	10.6	8.664	0.000	0.000	0.8	2.138	55.395	OK
FEH: 30 years: +35 %: 30 mins: Winter	120.83 4	120.83 4	0.234	0.234	10.0	8.652	0.000	0.000	2.1	2.141	55.461	OK
FEH: 30 years: +35 %: 60 mins: Summer	120.89 5	120.89 5	0.295	0.295	9.5	10.935	0.000	0.000	1.3	3.850	43.705	OK
FEH: 30 years: +35 %: 60 mins: Winter	120.89 4	120.89 4	0.294	0.294	7.8	10.893	0.000	0.000	1.6	3.841	43.922	OK
FEH: 30 years: +35 %: 120 mins: Summer	120.93 1	120.93 1	0.331	0.331	7.1	12.247	0.000	0.000	1.0	7.225	36.954	OK
FEH: 30 years: +35 %: 120 mins: Winter	120.93 3	120.93 3	0.333	0.333	5.3	12.341	0.000	0.000	1.1	7.213	36.470	OK
FEH: 30 years: +35 %: 240 mins: Summer	120.94 0	120.94 0	0.340	0.340	4.8	12.592	0.000	0.000	0.7	13.613	35.176	OK
FEH: 30 years: +35 %: 240 mins: Winter	120.94 3	120.94 3	0.343	0.343	3.4	12.703	0.000	0.000	0.7	13.572	34.606	OK
FEH: 30 years: +35 %: 360 mins: Summer	120.93 0	120.93 0	0.330	0.330	3.7	12.236	0.000	0.000	0.6	19.254	37.008	OK
FEH: 30 years: +35 %: 360 mins: Winter	120.93 1	120.93 1	0.331	0.331	2.5	12.279	0.000	0.000	0.7	19.218	36.788	OK
FEH: 30 years: +35 %: 480 mins: Summer	120.91 9	120.91 9	0.319	0.319	3.1	11.815	0.000	0.000	0.6	22.890	39.175	OK
FEH: 30 years: +35 %: 480 mins: Winter	120.91 7	120.91 7	0.317	0.317	2.0	11.745	0.000	0.000	0.7	22.890	39.535	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		 water, civils and environment	
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FEH: 30 years: +35 %: 960 mins: Summer	120.87 8	120.87 8	0.278	0.278	1.8	10.284	0.000	0.000	0.6	27.060	47.056	OK
FEH: 30 years: +35 %: 960 mins: Winter	120.85 5	120.85 5	0.255	0.255	1.2	9.449	0.000	0.000	0.6	26.959	51.357	OK
FEH: 30 years: +35 %: 1440 mins: Summer	120.83 8	120.83 8	0.238	0.238	1.3	8.805	0.000	0.000	0.6	29.699	54.670	OK
FEH: 30 years: +35 %: 1440 mins: Winter	120.79 7	120.79 7	0.197	0.197	0.9	7.306	0.000	0.000	0.5	29.700	62.389	OK
FEH: 100 years: +0 %: 15 mins: Summer	120.76 1	120.76 1	0.161	0.161	14.1	5.976	0.000	0.000	0.6	1.264	69.235	OK
FEH: 100 years: +0 %: 15 mins: Winter	120.76 0	120.76 0	0.160	0.160	14.4	5.938	0.000	0.000	0.6	1.264	69.429	OK
FEH: 100 years: +0 %: 30 mins: Summer	120.82 0	120.82 0	0.220	0.220	11.0	8.158	0.000	0.000	0.7	2.092	58.000	OK
FEH: 100 years: +0 %: 30 mins: Winter	120.82 0	120.82 0	0.220	0.220	9.5	8.146	0.000	0.000	0.8	2.096	58.063	OK
FEH: 100 years: +0 %: 60 mins: Summer	120.88 0	120.88 0	0.280	0.280	9.1	10.370	0.000	0.000	1.2	3.785	46.616	OK
FEH: 100 years: +0 %: 60 mins: Winter	120.87 8	120.87 8	0.278	0.278	7.5	10.304	0.000	0.000	1.5	3.775	46.953	OK
FEH: 100 years: +0 %: 120 mins: Summer	120.90 4	120.90 4	0.304	0.304	6.6	11.248	0.000	0.000	0.9	7.033	42.096	OK
FEH: 100 years: +0 %: 120 mins: Winter	120.90 6	120.90 6	0.306	0.306	4.9	11.321	0.000	0.000	1.0	7.018	41.720	OK
FEH: 100 years: +0 %: 240 mins: Summer	120.90 4	120.90 4	0.304	0.304	4.5	11.276	0.000	0.000	0.7	13.156	41.954	OK
FEH: 100 years: +0 %: 240 mins: Winter	120.90 8	120.90 8	0.308	0.308	3.1	11.405	0.000	0.000	0.8	13.134	41.285	OK
FEH: 100 years: +0 %: 360 mins: Summer	120.89 6	120.89 6	0.296	0.296	3.5	10.971	0.000	0.000	0.7	18.543	43.524	OK
FEH: 100 years: +0 %: 360 mins: Winter	120.89 6	120.89 6	0.296	0.296	2.3	10.962	0.000	0.000	0.7	18.519	43.570	OK
FEH: 100 years: +0 %: 480 mins: Summer	120.88 6	120.88 6	0.286	0.286	2.9	10.612	0.000	0.000	0.7	21.156	45.367	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ						Date: 09/03/2026						
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase						Designed by: AS	Checked by: ML	Approved By: OH				
						Company Address: Aegaea Limited						

FEH: 100 years: +0 %: 480 mins: Winter	120.88 3	120.88 3	0.283	0.283	1.9	10.467	0.000	0.000	0.7	21.157	46.116	OK
FEH: 100 years: +0 %: 960 mins: Summer	120.85 3	120.85 3	0.253	0.253	1.7	9.383	0.000	0.000	0.6	25.484	51.696	OK
FEH: 100 years: +0 %: 960 mins: Winter	120.82 9	120.82 9	0.229	0.229	1.1	8.490	0.000	0.000	0.6	25.407	56.296	OK
FEH: 100 years: +0 %: 1440 mins: Summer	120.82 0	120.82 0	0.220	0.220	1.3	8.158	0.000	0.000	0.6	28.386	58.001	OK
FEH: 100 years: +0 %: 1440 mins: Winter	120.77 9	120.77 9	0.179	0.179	0.8	6.648	0.000	0.000	0.5	28.290	65.775	OK
FEH: 100 years: +40 %: 15 mins: Summer	120.83 3	120.83 3	0.233	0.233	19.1	8.637	0.000	0.000	2.3	1.385	55.537	OK
FEH: 100 years: +40 %: 15 mins: Winter	120.83 2	120.83 2	0.232	0.232	18.1	8.610	0.000	0.000	1.1	1.397	55.677	OK
FEH: 100 years: +40 %: 30 mins: Summer	120.91 6	120.91 6	0.316	0.316	13.9	11.723	0.000	0.000	1.3	2.365	39.648	OK
FEH: 100 years: +40 %: 30 mins: Winter	120.91 6	120.91 6	0.316	0.316	13.1	11.718	0.000	0.000	1.6	2.369	39.675	OK
FEH: 100 years: +40 %: 60 mins: Summer	121.00 3	121.00 3	0.403	0.403	12.5	14.948	0.000	0.000	1.1	4.301	23.049	OK
FEH: 100 years: +40 %: 60 mins: Winter	121.00 3	121.00 3	0.403	0.403	10.3	14.942	0.000	0.000	1.2	4.294	23.081	OK
FEH: 100 years: +40 %: 120 mins: Summer	121.05 3	121.05 3	0.453	0.453	9.1	16.792	0.000	0.000	1.1	8.038	13.557	OK
FEH: 100 years: +40 %: 120 mins: Winter	121.05 4	121.05 4	0.454	0.454	6.8	16.833	0.000	0.000	1.2	8.010	13.342	OK
FEH: 100 years: +40 %: 240 mins: Summer	121.06 9	121.06 9	0.469	0.469	6.1	17.369	0.000	0.000	0.7	15.167	10.585	OK
FEH: 100 years: +40 %: 240 mins: Winter	121.07 5	121.07 5	0.475	0.475	4.3	17.585	0.000	0.000	0.7	15.123	9.474	OK
FEH: 100 years: +40 %: 360 mins: Summer	121.06 3	121.06 3	0.463	0.463	4.7	17.137	0.000	0.000	0.6	21.681	11.776	OK
FEH: 100 years: +40 %: 360 mins: Winter	121.06 6	121.06 6	0.466	0.466	3.2	17.270	0.000	0.000	0.6	21.606	11.093	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: AS	Checked by: ML	Approved By: OH
		Company Address: Aegaea Limited		



FEH: 100 years: +40 %: 480 mins: Summer	121.05 2	121.05 2	0.452	0.452	3.9	16.734	0.000	0.000	0.6	27.435	13.856	OK
FEH: 100 years: +40 %: 480 mins: Winter	121.05 2	121.05 2	0.452	0.452	2.6	16.742	0.000	0.000	0.6	27.386	13.810	OK
FEH: 100 years: +40 %: 960 mins: Summer	121.01 6	121.01 6	0.416	0.416	2.4	15.409	0.000	0.000	0.6	35.637	20.674	OK
FEH: 100 years: +40 %: 960 mins: Winter	120.99 8	120.99 8	0.398	0.398	1.6	14.757	0.000	0.000	0.6	35.537	24.029	OK
FEH: 100 years: +40 %: 1440 mins: Summer	120.98 0	120.98 0	0.380	0.380	1.8	14.080	0.000	0.000	0.6	39.756	27.515	OK
FEH: 100 years: +40 %: 1440 mins: Winter	120.94 3	120.94 3	0.343	0.343	1.2	12.719	0.000	0.000	0.6	39.710	34.521	OK

Project: AEG10347_RH19AshurstWood_07 Land at Hounds Cottage, Wall Hill Road, Ashurst Wood, RH19 3TQ		Date: 09/03/2026		
Report Details: Type: Phase Management Storm Phase: Phase		Designed by: AS	Checked by: ML	Approved By: OH
		Company Address: Aegaea Limited		



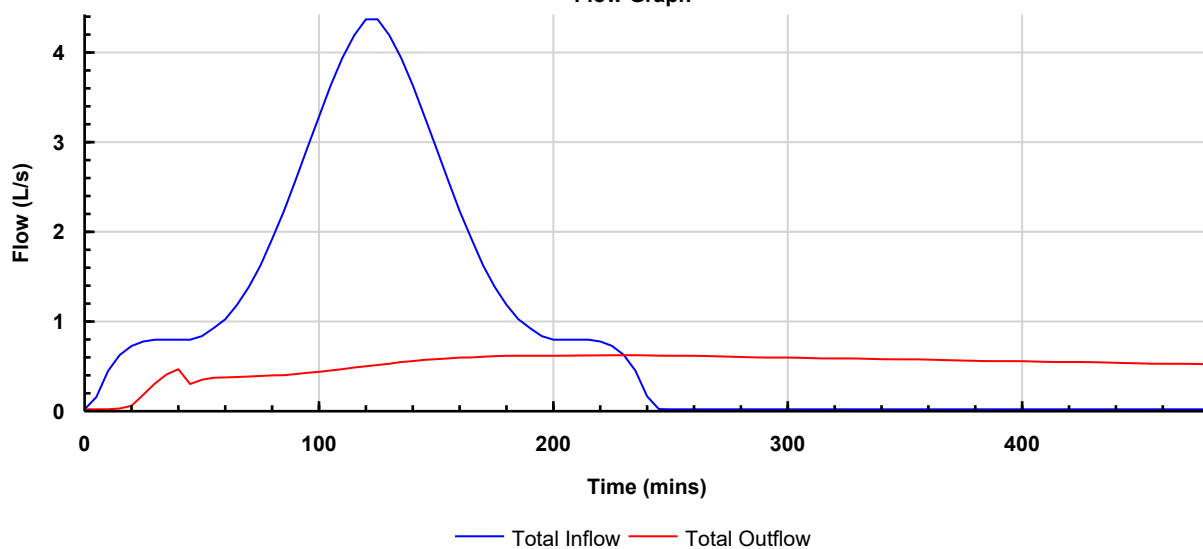
Phase
FEH: 100 years: Increase Rainfall (%): +40: 240 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
Flow Control Chamber			0.6	14.359
TOTAL	4.4	25.018	0.6	14.359

Graphs

Flow Graph



Volume Graph

