

## Technical Note 36: Phase 3 Attenuation Basin and Swale

Site: Billingshurst – Phase 3 Proposed Attenuation Basins and Swale  
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### 1.0 Introduction

- 1.1 This Drainage Statement has been prepared by Motion on behalf of Dunmoore Group Ltd to support a planning application for an extension to the consented mixed used development in Billingshurst, West Sussex. This development will make up Phase 3 of the development site and is located to the south of the existing Phase 1 and 2 developments. The application consists of two new basins and a swale to provide attenuation for the new access road and the workshop/storage unit known as the EVM site as part of the Phase 3 development. The site plan can be found in **Appendix A**.
- 1.2 A Drainage Strategy and SuDS Assessment for the Phase 1 and 2 development was undertaken by Motion in January 2019, as part of the original consented hybrid application. As this report is for two new attenuation basins and a swale, it is intended to be a standalone report, however where necessary it takes into account the various applications and variations to the original consented hybrid application.
- 1.3 The site is located approximately to the north of Billingshurst Village centre within the administrative boundaries of Horsham District Council (HDC) and West Sussex County Council (WSCC). The site is currently undeveloped agricultural land.
- 1.4 This technical note will discuss the risks to the proposed development from all sources of flooding. This report will also define how the site will manage surface water so that the development does not increase flood risk in the area or to neighbouring properties.
- 1.5 This FRA and drainage strategy follows the guidance set out in:
  - ▶ 2024 National Planning Policy Framework (NPPF)
  - ▶ Technical Guidance to the National Planning Policy Framework
  - ▶ CIRIA SuDS Manual 2015 (C753)
  - ▶ Environment Agency Rainfall Runoff Management for Developments.
- 1.6 This report does not provide information on how the drainage infrastructure will be protected during the construction phase of the project. The provision of this information is the responsibility of the appointed contractor.

## 2.0 Site Description

**Table 2.1 – Site Summary**

|                                           |                                                                                                                                                                                                                                                                            |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Name</b>                          | Phase 3 Billingshurst – Proposed Attenuation Basins and Swale                                                                                                                                                                                                              |
| <b>Location</b>                           | Phase 3 Billingshurst Trade Park, Stane Street, West Sussex, RH14 9HN                                                                                                                                                                                                      |
| <b>Grid Reference</b>                     | E 509253 N 126594                                                                                                                                                                                                                                                          |
| <b>Site Area</b>                          | 0.475ha                                                                                                                                                                                                                                                                    |
| <b>Development Type</b>                   | Construction of two new basins and swale to provide attenuation for the new access road and the commercial unit.                                                                                                                                                           |
| <b>Environment Agency (EA) Flood Zone</b> | The site is located wholly within Flood Zone 1 (less than 1 in 1,000 annual probability of flooding from rivers or the sea).                                                                                                                                               |
| <b>Surface Water Flood Risk</b>           | The Jeremy Benn Associates (JBA) Comprehensive Flood Maps (CFM's) and the EA's Risk of Flooding from Surface Water (RoFSW) map show that the whole site is in an area of low risk of surface water flooding.                                                               |
| <b>Ground Water Flood Risk</b>            | The Envirocheck report shows that the site has not got geological and hydrogeological indicators for groundwater flooding to occur. According to the BGS Groundwater Flooding Susceptibility maps and the GeoSmart Information, the site is in an area of negligible risk. |
| <b>Local Water Authority</b>              | Southern Water (SW)                                                                                                                                                                                                                                                        |
| <b>Local Planning Authority</b>           | Horsham District Council (HDC)                                                                                                                                                                                                                                             |
| <b>Lead Local Flood Authority</b>         | West Sussex County Council (WSCC)                                                                                                                                                                                                                                          |

### Site Location and Description

- 2.1 The site is located in the village of Billingshurst in the District of Horsham and County of West Sussex. The nearest post code is RH14 9HN and the site co-ordinates are 509253, 126594. The application site is approximately 0.475 hectare (ha). The site is made up of mostly agricultural land with some trees and can be described as Greenfield. A copy of the location plan can be found in **Appendix B**.
- 2.2 The proposal is for two new basin and a swale to provide attenuation for the new access road and the workshop/storage unit known as the EVM site as part of the Phase 3 development. An extract of the illustrative masterplan is illustrated in Figure 2.1 and can be found in full in **Appendix A**.

### Topography

- 2.3 A topographical survey of the existing site was undertaken by Hollis in November 2019 which is provided in **Appendix C** of this report. The site generally falls from northeast to west with ground levels ranging from approximately 56.05 metres Above Ordnance Datum (mAOD) to 51.94mAOD.

### Geology

- 2.4 The British Geological Survey (BGS) online Geoindex Mapping indicates that the site is underlain by Weald Clay Formation, which is made up of clay, silt and sand with no superficial deposits of Head. Borehole records from the surrounding area have been obtained from the BGS online index and these can be found in **Appendix D**. These Borehole records support the findings of the BGS mapping and confirm that the site is underlain by clay, silt and sand.

- 2.5 The Department for the Environment, Food and Rural Affairs (Defra's) Magic Map states that soils in the area are 'Slowly Permeable Seasonally Wet Slightly Acid But Base-Rich Loamy and Clayey Soils'.
- 2.6 Intrusive ground investigations were carried out at the site in December 2025, and several exploratory holes were excavated up to a maximum depth of 4m. The exploratory hole logs confirmed that the ground comprises Weald Clay Formation, with coarse soils and weathered sandstone encountered across the south-eastern half of the site, and fine/cohesive soils and mudstone across the north-west. A copy of the exploratory hole logs taken from Soiltechnics Ground Investigation report can be found in **Appendix E**.
- 2.7 The intrusive investigations also confirmed that the use of infiltration techniques at the site are unlikely to be feasible as groundwater prevented permeability testing from being carried out.

### Hydrogeology

- 2.8 Defra's Magic Map indicates that the site is not located in a Groundwater Source Protection Zone (SPZ) or in an Aquifer designation. A flood screening report has been obtained from Envirocheck Landmark Information Group Ltd and this can be found in **Appendix F**. The report shows that the site has not got geological and hydrogeological indicators for groundwater flooding to occur. According to the BGS Groundwater Flooding Susceptibility maps and the GeoSmart Information, the site is in an area of negligible risk.

### Existing Drainage Regime

- 2.9 The site is existing agricultural land made up of open fields. Therefore, the existing site can be described as greenfield.
- 2.10 The field is currently drained via a below ground land drainage system of perforated pipes, which outfalls into Phase 1 of Billingshurst Trade Park. The water is routed through Phase 1 in a separate system and outfalls to a culvert that drains under Stane Street (A29) into a ditch to the west of road.
- 2.11 The nearest watercourse to the site is an unnamed ditch (a tributary of the River Arun) which flows in an easterly direction along the site's southern boundary. The nearest main river to the site is the River Adur which is located 1km east of the site.
- 2.12 Asset location plans were obtained from Southern Water (see **Appendix G**), and these indicate there are no surface water sewers which currently serve the site.

### 3.0 The New National Standards for SuDS

- 3.1 On 19 June 2025 the UK government published its new National Standards for Sustainable Drainage Systems (SuDS). The new standards are an evolution of industry standards and current best practice, many of which practitioners and design engineers have already been actively incorporating in their drainage strategies. Therefore, while the new National Standards do not fundamentally change current standards, they are a welcome step in clarifying points that had previously been uncertain and has enshrined them in a single piece of guidance.
- 3.2 The standards emphasise how sustainable drainage and flood risk should be considered in developments, and the importance of site appraisal and early, integrated design with the site's natural features and proposed infrastructure. However, the Planning Balance and other technical factors/policy requirements must always be considered.
- 3.3 The new National Standards for SuDS outline that;
  - ▶ SuDS are mandatory for major developments and drainage strategies must conform with the new national criteria and LLFA guidance.
  - ▶ There is a stronger emphasis on the 'four pillars' of SuDS. Drainage strategies must demonstrate benefits for water quantity and quality as well as amenity, and biodiversity. This pushes designers to incorporate more surface level SuDS and rely less on below-ground attenuation.
  - ▶ There is also greater emphasis on using water recycling within developments, especially in water-stressed areas.
  - ▶ There is more clarity on long-term adoption & maintenance of SuDS system and LPA's will expect clearer maintenance and management strategies for drainage systems and require stronger evidence of deliverability.
- 3.4 As stated before, this is a minor evolution of the current approach to drainage design, but there are subtle differences in the design factors, which could lead to an increase in size of attenuation features. In addition to the above overarching principles of the New National Standards for SuDS, the below specific points should be borne in mind by designers and included in any drainage strategies:
  - ▶ Standard 2 provides explicit guidance on the management of everyday rainfall. The first 5mm of rainfall (the 'first flush') must be managed by interception and should not leave the site. Instead, it should either collected for reuse, infiltrated into the ground, or else captured, conveyed, and stored within SuDS features (but there are specific criteria that make this last point acceptable).
  - ▶ The latest standards now formalise that the minimum permissible infiltration rate for discharging surface water via a 'System A' (Total Infiltration) solution. The minimum infiltration coefficient that can support an infiltration-based drainage solution is  $1.0 \times 10^{-6}$  m/sec. Additionally, the standards now add that the half drain in the 3.3% AEP event should be less than 24 hours.
  - ▶ A 'relaxation factor' should instead be applied to the target greenfield runoff rates on brownfield site. It defines that the maximum relaxation factor for runoff rates should be no greater than five times the greenfield rates. This allows for easier implementation on heavily developed urban sites, especially where LLFA's previously demanded greenfield runoff rates.
  - ▶ The new National Standards confirm a previous 'grey area' by stating that SuDS features should be included in the contributing catchment area. It also notes that there is no requirement to provide attenuation for external overland flows entering the site, but these flows should be considered for capacity of the pipe network.
  - ▶ Standard 3 of the new National Standards for SuDS clarifies the expectations with regards to urban creep. It says "*within developments an urban creep uplift factor shall be applied by adding a*

*percentage increase to the calculated area of the impermeable area within the property curtilages. This shall be 10% for all developments unless there are no external private permeable spaces, for example, flats and apartments, when it shall be 0%."*

- 3.5 There are also other specific technical calculations and approaches that need to be balanced in site design (such as the allowable ratio of contributing areas to permeable pavements when discharging via infiltration, as one such example) that also must be taken into account. These should be assessed and balanced on a site-by-site basis.

## 4.0 Attenuation Basins and Swale

### Proposed Attenuation Basins and Swale

- 4.1 The proposed attenuation basin and the swale surface water strategy can be found in **Appendix H**.
- 4.2 Current planning policy and EA guidance requires developments to employ SuDS (Sustainable Drainage Systems) techniques wherever feasible. Careful design of SuDS features can ensure that a development's surface water drainage closely reflects the natural hydrology of the pre-developed site.
- 4.3 SuDS will attenuate and treat surface water run-off quantities at the source (source control) in line with NPPF and EA policies.
- 4.4 Source control systems treat surface water close to the point of origin, in features such as soakaways, permeable paving and swales, to name a few.
- 4.5 The existing and proposed impermeable areas for the development site are summarised in Table 6.1 below. This demonstrates that the proposed development will increase the hardstanding area of the site. An impermeable area plan is detailed in **Appendix I**.

**Table 6.1 – Existing and Proposed Surface Cover**

| Land Use | Impermeable Area |         | Gardens and Landscaping |         |
|----------|------------------|---------|-------------------------|---------|
|          | Area (ha)        | % Cover | Area (ha)               | % Cover |
| Existing | 0.00             | 0       | 0.475                   | 100     |
| Proposed | 0.19             | 40      | 0.285                   | 60      |

- 4.6 Including the workshop and storage unit (EVM site), the total impermeable area is 1.35 (ha)

### Greenfield Runoff Rate

- 4.7 The greenfield runoff rates have been calculated for the proposed impermeable area using HR Wallingford's UKSuDS online calculator and a summary of these are presented in Table 6.2, and can be seen in full in **Appendix J**.

**Table 6.2 – Greenfield Runoff Rate**

| Return Period           | 1 in 2 | 1 in 30 | 1 in 100 | QBar |
|-------------------------|--------|---------|----------|------|
| Discharge Rate (l/s/ha) | 7.4    | 19.2    | 26.7     | 8.4  |
| Discharge Rate (l/s)    | 1.4    | 3.6     | 5.1      | 1.6  |

- 4.8 A total discharge rate, including the EVM site for QBar of 11.4 l/s will be applied to the drainage strategy for all return periods up to and including the 1 in 100-year storm event with an allowance for climate change.

### The Drainage Hierarchy

- 4.9 The drainage hierarchy is a sequential check that intends to ensure that all practical and reasonable measures are taken to manage surface water as high up the hierarchy (with '1' being the highest) as possible, and that the amount of surface water managed at the bottom of the hierarchy is minimised.

The PPG to the NPPF) states that “Generally, the aim should be to discharge surface run off as high up the following hierarchy of drainage options as reasonably practicable”.

- 4.10 The drainage hierarchy presented in the NPPF presents only four tiers of drainage options. This has been expanded on and adopted by others and now can be viewed as the following:
1. Store rainwater for later use.
  2. Use infiltration techniques, such as porous surfaces in non-clay areas.
  3. Attenuate rainwater in ponds or open water features for gradual release.
  4. Attenuate rainwater by storing in tanks or sealed water features for gradual release.
  5. Discharge rainwater direct to a watercourse.
  6. Discharge rainwater to a surface water sewer/drain.
  7. Discharge rainwater to the combined sewer.
  8. Discharge rainwater to the foul sewer.
- 4.11 The first two tiers of the drainage hierarchy ensure that surface water is retained within the site boundary and does not increase flood risk to others. This is always the most preferable method of surface water management.
- 4.12 The next six tiers of the hierarchy provide regional control, but with decreasing levels of pollution removal and reduced potential for amenity and habitat creation with each tier of the drainage hierarchy.
- 4.13 Within the lower six tiers of the drainage hierarchy, there must be some form of flow restriction, so that off-site surface water discharge resembles greenfield runoff rates, as much as is reasonably practicable. This requires on-site storage facilities, which may include ponds, swales, subsurface storage tanks and System C (non-infiltration) permeable pavements with flow control devices. Again, methods that provide the most potential for amenity and pollution removal should be favoured.
- 4.14 Each tier of the drainage hierarchy has been considered for the surface water drainage for the development. In order of preference, the outcome of these considerations is below.

#### **Tier 1 - Store rainwater for later use**

- 4.15 As this application only applies to the access road therefore this tier of the drainage hierarchy will not be applicable for surface water discharge. However, Rainwater harvesting is being proposed as part of the workshop and storage unit (EVM site) application.

#### **Tier 2 - Use Infiltration techniques, such as porous surfaces in non-clay areas**

- 4.16 As detailed in Chapter 2, intrusive ground investigations were carried out in December 2025 and failed permeability testing indicates that the use of infiltration techniques at the site would not be possible.

#### **Tier 3 - Attenuate rainwater in ponds or open water features for gradual release**

- 4.17 Due to the site layout and nature of proposed use of the site, it is proposed to provide two detention basins, one to the southeast of the planning application boundary which will provide attenuation for the workshop and storage unit (EVM site) and one to the northwest of the planning application boundary attenuating the access road and the controlled discharge from the EVM site. The basin would be constructed as follows:

#### Southeast basin

- ▶ Basin invert / base level: 52.00 mAOD.
- ▶ Basin storage depth: 1.2 m.
- ▶ Basin freeboard: 0.3m.
- ▶ Side slopes: 1:3 gradient.

#### Northwest basin

- ▶ Basin invert / base level: 47.650 mAOD.
- ▶ Basin storage depth: 1.2 m.
- ▶ Basin freeboard: 0.3m.
- ▶ Side slopes: 1:3 gradient.

- 4.18 The south-eastern basin would discharge at the QBar greenfield run-off rate of 9.8 l/s via a flow control manhole within the EVM site into the proposed access road drainage network. This would then discharge into the constructed Phase 1 network restricting the flow to the QBar greenfield run-off rate of 11.4 l/s which includes the EVM site via a flow control chamber before eventually reaching the existing watercourse to the west of Stane Street.
- 4.19 The basins have been sized to accommodate surface water run-off for the access road and the EVM site, with an available storage volume of 388.5m<sup>3</sup>. Details of the basin size, shape and location are provided on the drainage strategy layout included in **Appendix H**.
- 4.20 Details for the proposed workshop and storage unit (EVM) site drainage under a separate planning application.
- 4.21 The strategy also includes a swale to the southwest of the access road. The swale will be designed to freely discharge into the northwest basin. The swale would be constructed as follows:
- ▶ Swale length/width: 45 x 0.6m
  - ▶ Swale invert / base level: 49.100 mAOD.
  - ▶ Swale storage depth: 0.9m.
  - ▶ Swale freeboard: 0.3m.
  - ▶ Side slopes: 1:3 gradient.
- 4.22 A hydraulic model has been produced using InfoDrainage for the two new attenuation basin and the swale, and the model results can be found in **Appendix K**. The model was run for a number of events and return periods. They are as follows:
- ▶ 1 in 2-year rainfall for 15, 30, 60, 120, 240, 360, 480, 960 and 1440-minute storm durations
  - ▶ 1 in 30-year (plus 40% increase for climate change) rainfall for 15, 30, 60, 120, 240, 360, 480, 960 and 1440-minute storm durations
  - ▶ 1 in 100-year (plus 45% increase for climate change) rainfall for 15, 30, 60, 120, 240, 360, 480, 960 and 1440-minute storm durations.
- 4.23 InfoDrainage software was used to determine the size of the required attenuation for storm events up to and including the 1 in 100-year storm (+ 45% increase for climate change).

- 4.24 It should be noted that in the model there is not currently an option to set the MADD factor in InfoDrainage.
- 4.25 A Cv value of 1 for summer and winter storms was used. In addition, FEH 2022 rainfall data was used.
- 4.26 The InfoDrainage Network model has shown that the proposed attenuation basin and the swale can accommodate the surface water run-off from the access road and the EVM site with no flooding for the 1 in 30-year storm event (+40% allowance for climate change) and 1 in 100-year storm event (+45% allowance for climate change). Therefore, the proposed basins can be considered as appropriate and suitable for the proposed development.

**Tier 4 - Attenuate rainwater by storing in tanks or sealed water features for gradual release**

- 4.27 As the strategy includes open water features. This tier of the drainage hierarchy will not be needed for surface water discharge.

**Tier 5 - Discharge rainwater direct to a watercourse**

- 4.28 As discussed above, it is proposed to discharge surface water through the Phase 1 development and into the ordinary watercourse to the west of Stane Street.

**Tier 6 - Discharge rainwater to a surface water sewer/drain**

- 4.29 This tier of the drainage hierarchy will not be needed for surface water discharge.

**Tier 7 - Discharge rainwater to the combined sewer**

- 4.30 This tier of the drainage hierarchy will not be needed for surface water discharge.

**Tier 8 - Discharge rainwater to the foul sewer**

- 4.31 This tier of the drainage hierarchy will not be needed for surface water discharge.

**Exceedance Event**

- 4.32 An Exceedance Routing Plan for surface water is found in **Appendix L**. This details where surface water would flow to on Site and where it would be stored in an extreme event.

**Urban Creep**

- 4.33 Urban Creep can be described as future urban expansion within a development such as extensions to buildings and paved gardens as the development matures. These activities increase the impermeable area of a site and often sit outside of the development control process. As the development of the access road and the EVM site is a commercial site, and future urban expansion is unlikely therefore the urban creep sensitivity has not been applied to accommodate the additional storage into the attenuation basin and the swale.

### **New National Standards for SuDS**

- 4.34 The following provides a summary of how the proposed surface water drainage strategy and SuDS meet the requirements of the new National Standards for SuDS.

#### **Standard 1 – Runoff Destinations**

- 4.35 As this drainage statement consists of an access road, rainwater harvesting is not applicable however, the EVM site drainage strategy under a separate planning application which merges with the access road will incorporate rainwater harvesting systems therefore the site meets priority 1 of standard 1.

#### **Standard 2 – Management of Everyday Rainfall (Interception)**

- 4.36 Although no interception is provided for the access road, the EVM site drainage strategy under a separate planning application which merges with the access road will provide interception by utilising the following SuDS features :

- Rainwater Harvesting; and
- Permeable Paving.

Therefore, the site meets the requirements of Standard 2.

#### **Standard 3 – Management of Extreme Rainfall and Flooding**

- 4.37 The proposed drainage system will control runoff from the site to QBar, which is equivalent to the 1 in 2-year event (50%AEP), and therefore the surface water drainage strategy is compliant with Standard 3.

#### **Standard 4 – Water Quality**

- 4.38 The proposed SuDS will ensure that any surface water discharging to the watercourse will meet the necessary water quality standards. Therefore, the proposals meet the requirements of Standard 4.

#### **Standard 5 – Amenity**

- 4.39 The surface drainage system works with the wider landscape proposals for the site to provide opportunities for amenity. Therefore, the proposals meet standard 5.

#### **Standard 6 – Biodiversity**

- 4.40 The SuDS maximise the biodiversity benefits of the site by utilising open SuDS where possible. Therefore, the proposal meets the requirements of Standard 6.

#### **Standard 7 – Design of Drainage for Construction, Operation, Maintenance, Decommissioning and Structural Integrity**

- 4.41 The drainage strategy has been designed to ensure that the drainage system can be easily and safely constructed, operated and maintained. Section 5 sets out the proposed maintenance regime for the SuDS. At the detailed design stage, a full Management and Maintenance Plan will be developed for the site. Therefore, the site will meet Standard 7.

## 5.0 SuDS Maintenance Regime

- 5.1 This section describes the proposed management and schedules for the maintenance to reduce the risk of the proposed network flooding due to poor maintenance.

### Piped Network Maintenance

- 5.2 The piped network shall be maintained by either Southern Water or an approved maintenance company in accordance with DCG and the manufacturer's guidance.
- 5.3 This maintenance schedule should include; clearing gullies, removing any large obstructions within the pipes and cleaning catchpits at regular intervals to ensure the correct operation of the sewer network.

### Detention Basin and Swale Maintenance Regime

- 5.4 The proposed SuDS features are to have a routine maintenance schedule that conforms to CIRIA SuDS Manual (C753) 2015 guidance. An approved maintenance company is to adhere to the maintenance schedule provided in Tables 7.1, for permeable paving, and Table 7.2, for attenuation basins, to ensure the correct operation and maintenance of the drainage system.

**Table 5.1- Operation and maintenance Schedule for Attenuation Basins and Swale**

| Maintenance Schedule   | Required Action                                                                                                                         | Typical Frequency                                                              |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Regular Maintenance    | Remove litter and debris.                                                                                                               | Monthly, or as required.                                                       |
|                        | Cut grass – to retain grass height within specified design range.                                                                       | Monthly (during growing season), or as required,                               |
|                        | Manage other vegetation and remove nuisance plants.                                                                                     | Monthly (at start, then as required).                                          |
|                        | Inspect inlets, outlets, and overflows for blockages, and clear if required.                                                            | Monthly.                                                                       |
|                        | Inspect vegetation coverage.                                                                                                            | Monthly for 6 months, quarterly for 2 years, then half-yearly.                 |
|                        | Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies.                              | Half-yearly, or as required.                                                   |
| Occasional Maintenance | Re-seed areas of poor vegetation growth, alter plant types to better suit conditions, if required.                                      | As required or if bare soil is exposed over 10% or more of the treatment area. |
| Remedial Actions       | Repair erosion or other damage by re-seeding or re-turfing.                                                                             | As required.                                                                   |
|                        | Re-level uneven surface and reinstate design levels.                                                                                    | As required.                                                                   |
|                        | Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface. | As required.                                                                   |
|                        | Remove and dispose of oils or petrol residues using safe standard practices.                                                            | As required.                                                                   |

## 6.0 Summary and Conclusion

- 6.1 This Drainage Statement has been prepared by Motion on behalf of Dunmoore Group Ltd to support a planning application for an extension to the consented mixed used development in Billingshurst, West Sussex. This development will make up Phase 3 of the development site and is located to the south of the existing Phase 1 and 2 developments. The application consists of two new basins and a swale to provide attenuation for the new access road and the workshop/storage unit known as the EVM site as part of the Phase 3 development.
- 6.2 A Drainage Strategy and SuDS Assessment for the Phase 1 and 2 development was undertaken by Motion in January 2019, as part of the original consented hybrid application. As this report is for two new attenuation basin and a swale, it is intended to be a standalone report, however where necessary it takes into account the various applications and variations to the original consented hybrid application.
- 6.3 The site is existing agricultural land site made up of open fields. Therefore, the existing site can be described as greenfield.
- 6.4 The nearest watercourse to the site is an unnamed ditch (a tributary of the River Arun) which flows in a easterly direction along the site's southern boundary. The nearest main river to the site is the River Adur which is located 1km east of the site.
- 6.5 The approximately 0.475 ha site is located within Flood Zone 1 (less than 1 in 1000 annual probability of flooding from rivers or the sea) according to the Environment Agency's (EA's) Flood Map for Planning.
- 6.6 The site is at low risk of groundwater flooding, infrastructure failure and of flooding from artificial sources. Both the JBA Comprehensive Flood Maps (CFM's) and the EA's Risk of Flooding from Surface Water maps show that the Site is not affected by surface water flooding.
- 6.7 Intrusive ground investigations were carried out in December 2025 and failed permeability testing due to groundwater demonstrates that infiltration techniques are not considered possible on this site.
- 6.8 It is proposed that the surface water runoff will be managed via the attenuation basin before discharging at a restricted rate of 11.4 l/s QBAR Greenfield runoff rate for the impermeable areas on site including the EVM site and conveyed through Phase 1 to the existing watercourse to the west of Stane Street.
- 6.9 The basins have been sized to accommodate surface water run-off from the access road and the EVM site, with an available storage volume of 388.5m<sup>3</sup>.
- 6.10 Details for the proposed access road and the workshop/storage unit (EVM) site drainage under a separate planning application.
- 6.11 The drainage strategy also includes swale to the south-west of the access road. The swale will be designed to freely discharge into the north-western basin.
- 6.12 The hydraulic modelling results demonstrate that the proposed attenuation basin and the swale can accommodate the surface water run-off from the access road and the EVM site with no flooding for the 1 in 30-year storm event (+40% allowance for climate change) and 1 in 100-year storm event (+45% allowance for climate change). Therefore, the proposed basins can be considered as appropriate and suitable for the proposed development.
- 6.13 This report demonstrates that the proposed development will not result in an increased risk of flooding on site or to neighbouring areas. Therefore, it can be concluded that the development fulfils the requirements of the PPG and the NPPF.

## Appendix A

Proposed Site Layout



|                                                                                                                                                       |        |         |     |                 |                                                                                                                                                                                                                                                         |                                                                                                          |  |                                           |        |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--------|----------------------------------------|
| <div>Notes:</div> <div>This drawing is the sole copyright of IAN C KING Associates and no part may be reproduced without their written consent.</div> | Drawn  | Checked | CDM | P - Preliminary | <div><div><div><div></div><div>interface</div><div>interface-nm.co.uk</div><div>4718</div><div>ISO 9001 Certified</div></div><div><div></div><div>UKAS</div><div>MANAGEMENT SYSTEMS</div><div>4718</div><div>ISO 9001 Certified</div></div></div></div> | Job Title                                                                                                |  | Billingshurst Trade Park<br>Dunmore Group | Date   | 6-2025                                 |
|                                                                                                                                                       | Rev A: |         |     |                 |                                                                                                                                                                                                                                                         | A - for Approval                                                                                         |  |                                           | Scale  | 1:2500 (A3)                            |
|                                                                                                                                                       | Rev B: |         |     |                 |                                                                                                                                                                                                                                                         | T - Tender                                                                                               |  |                                           | Job No | D-101-Ph 3                             |
|                                                                                                                                                       | Rev C: |         |     |                 |                                                                                                                                                                                                                                                         | C - Construction                                                                                         |  |                                           | Drg No | U1-SLP-01-C                            |
|                                                                                                                                                       | Rev D: |         |     |                 |                                                                                                                                                                                                                                                         |                                                                                                          |  |                                           |        |                                        |
|                                                                                                                                                       |        |         |     |                 |                                                                                                                                                                                                                                                         | ASSOCIATES ARCHITECTS                                                                                    |  |                                           |        |                                        |
|                                                                                                                                                       |        |         |     |                 |                                                                                                                                                                                                                                                         | 45 Buxton Drive, New Malden<br>- - Surrey KT3 3UX - -<br>Tel: 07554 653 444 E-mail: ickaa@iancking.co.uk |  | Drg Title                                 |        | Phase III Unit 1<br>Site Location Plan |

## **Appendix B**

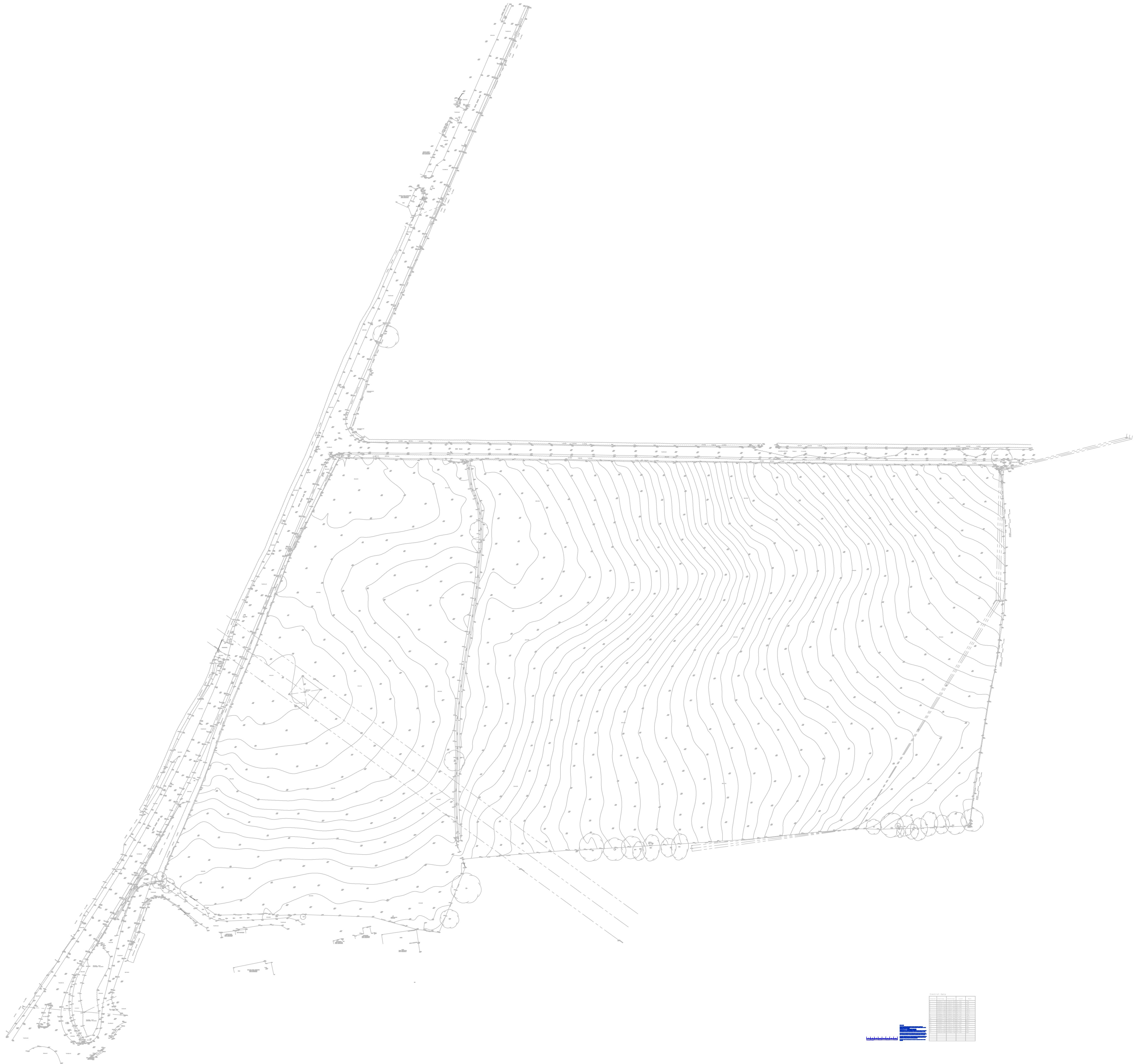
### Site Location Plan



|                 |                                           |                  |              |                                                                                                                                                                                                                           |                                                                                                                   |  |  |
|-----------------|-------------------------------------------|------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Project:</b> | Land off Stane Street, Billingshurst      |                  |              | <b>Title</b>                                                                                                                                                                                                              | Site Location Plan                                                                                                |  |  |
| <b>Client:</b>  | Dunmoore (West London) Limited & EG Group |                  |              | <b>Geo-Environmental Services Ltd</b><br><br><b>Unit 7 Danworth Farm, Cuckfield Road</b><br><br><b>Hurstpierpoint, West Sussex BN6 9GL</b><br><br><b>+44(0)1273 832972 <a href="http://www.gesl.net">www.gesl.net</a></b> | <br><b>Geo-Environmental</b> |  |  |
| <b>Ref No:</b>  | GE18159                                   | <b>Revision:</b> | 0            |                                                                                                                                                                                                                           |                                                                                                                   |  |  |
| <b>Drawn:</b>   | KOD                                       | <b>Date:</b>     | 07/06/2019   |                                                                                                                                                                                                                           |                                                                                                                   |  |  |
| <b>Figure:</b>  | 1                                         | <b>Scale:</b>    | Not To Scale |                                                                                                                                                                                                                           |                                                                                                                   |  |  |

## **Appendix C**

Topographic Survey



## **Appendix D**

### BGS Borehole Records

301

N/S

TQ02/24

301/115

BILLINGSHURST.

Sussex 23NE

From Topleys notes, where it is given as Billingshurst

W.S.S.x.II, p. 159. 1911

From notes and specimens sent by Messrs. Topley

water at first stood  $15\frac{1}{2}$  feet down. Started falling when the boring was  $60\frac{1}{2}$  feet down and fell 19 feet down. When the hole was 80 feet deep stood at 52 feet down.

|                   | Thickness       | Depth.          |
|-------------------|-----------------|-----------------|
| Sand              | 15              | 15              |
| Red clay          | 5               | 20              |
| Bluish sand clay  | 4               | 24              |
| Brown & red clay  | 10              | 34              |
| Bluish clay       | 6               | 40              |
| Yellow sandy clay | 5               | 45              |
| Stiff yellow clay | 5               | 50              |
| Blue clay         | 17              | 67              |
| Sandstone         | $\frac{1}{2}$   | $67\frac{1}{2}$ |
| Blue clay         | $32\frac{1}{2}$ | 100.            |

Weald Clay

? Sussex Co. 23 N.E. (E.) Site not traced in field survey.

S.E.G.H. 20.3.41.

301/115 Billingshurst. Site not determined

N/S TQ 02 NE/19  
TQ 02/24

W.S.Sx.II, p. 159. When bore less than 60%, R.W.L. 15½ down; bore 60%, R.W.L. 19 down;  
bore 80, R.W.L. 52 down. Tilley, 1911.

WC

100

100

| 301/115           |                   | Thickness       | Depth.          |
|-------------------|-------------------|-----------------|-----------------|
| Weald Clay<br>100 | Sand              | 15              | 15              |
|                   | Red clay          | 5               | 20              |
|                   | Bluish sand clay  | 4               | 24              |
|                   | Brown & red clay  | 10              | 34              |
|                   | Bluish clay       | 6               | 40              |
|                   | Yellow sandy clay | 5               | 45              |
|                   | Stiff yellow clay | 5               | 50              |
|                   | Blue clay         | 17              | 67              |
|                   | Sandstone         | $\frac{1}{2}$   | $67\frac{1}{2}$ |
|                   | Blue clay         | $32\frac{1}{2}$ | 100.            |

301/115 Billingshurst. Site not determined

N/S TQ 02 NE/  
TQ 02/25W.S.Sx.II, p. 159. When bore less than 60%, R.W.L. 15½ down; bore 60%, R.W.L. 19 d  
bore 80, R.W.L. 52 down. Tilley, 1911.

WC

100

100

| 301/115           |                   | Thickness     | Depth. |
|-------------------|-------------------|---------------|--------|
| Weald Clay<br>100 | Sand              | 15            | 15     |
|                   | Red clay          | 5             | 20     |
|                   | Bluish sand clay  | 14            | 24     |
|                   | Brown & red clay  | 10            | 34     |
|                   | Bluish clay       | 6             | 40     |
|                   | Yellow sandy clay | 5             | 45     |
|                   | stiff yellow clay | 5             | 50     |
|                   | Blue clay         | 17            | 67     |
|                   | Sandstone         | $\frac{1}{2}$ | 67½    |
|                   | Blue clay         | 32½           | 100.   |

301/115  
N/S  
TQ02/24 301/115

BILLINGSHURST.

Sussex 23NE/E

From Topleys notes, where it is given as Billingshurst.

W.S.S. II, p. 159. 1911

From notes and specimens sent by Messrs. Tilley.

Water at first stood  $15\frac{1}{2}$  feet down. Started falling when the boring was  $60\frac{1}{2}$  feet down and fell to 19 feet down. When the hole was 80 feet deep it stood at 52 feet down.

|                   | Thickness       | Depth.          |
|-------------------|-----------------|-----------------|
| Sand              | 15              | 15              |
| Red clay          | 5               | 20              |
| Bluish sand clay  | 4               | 24              |
| Brown + red clay  | 10              | 34              |
| Bluish clay       | 6               | 40              |
| Yellow sandy clay | 5               | 45              |
| Stiff yellow clay | 5               | 50              |
| Blue clay         | 17              | 67              |
| Sandstone         | $\frac{1}{2}$   | $67\frac{1}{2}$ |
| Blue clay         | $32\frac{1}{2}$ | 100.            |

Weald Clay

? Sussex 6 in. 23 NE. (E.) Site not traced in field survey.

S.E. 44. 20. 3. 41.

? Possibly connected with old water-work - see notes of MS notes on record 3

## **Appendix E**

### Exploratory Hole Logs



- Key:
- Phase 1 Works area
  - Phase 2 Works area (site boundary)
  - Phase 3 Works area
  - Stockpile
  - Photos
  - Dynamic Cone Penetrometer Test
  - Trial Pit
  - Windowless Sampling Borehole
  - Monitoring Installation
  - Infiltration Test

Notes

- 1) Base image provided by Google.
- 2) All drawn features are approximate.

Contains OS data © Crown copyright [and database right] [2024]  
Map data © 2024 Google

|     |          |                      |
|-----|----------|----------------------|
|     |          |                      |
|     |          |                      |
|     |          |                      |
| A   | Dec 2025 | First issue          |
| REV | DATE     | COMMENT ON VARIATION |

**soiltechnics**  
environmental • geotechnical • building fabric

PROJECT  
Hilland Road, Billingshurst

TITLE  
Exploratory Hole Location Plan

DRAWING No.  
STX7305-D01-A

## Key to legends

| Composite materials, soils and lithology                                          |         |                                                                                   |             |                                                                                     |           |
|-----------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------|
|  | Topsoil |  | Made Ground |    | Boulders  |
|  | Clay    |  | Coal        |    | Cobbles   |
|  | Gravel  |  | Limestone   |    | Mudstone  |
|  | Sand    |  | Sandstone   |    | Silt      |
|                                                                                   |         |                                                                                   |             |  | Siltstone |
|                                                                                   |         |                                                                                   |             |  | Chalk     |
|                                                                                   |         |                                                                                   |             |  | Concrete  |
|                                                                                   |         |                                                                                   |             |  | Peat      |

Note: Composite soil types are signified by combined symbols.

## Key to 'test results' and 'sampling' columns

| Test result |                                                                                                                                                                                                                                         | Sampling           |                                                          |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------|
| Depth       | Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)                                                                                                                                                 | From (m)<br>To (m) | Records depth of sampling                                |
|             | PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m <sup>2</sup> ) by applying a factor of 50.                                                                                                     |                    | D Disturbed sample                                       |
|             |                                                                                                                                                                                                                                         |                    | B Bulk disturbed sample                                  |
|             |                                                                                                                                                                                                                                         |                    | ES Environmental sample                                  |
| Result      | SV – Hand held shear vane result reported as an undrained shear strength (kN/m <sup>2</sup> ). Where multiple readings are taken at the same level the average value is shown on the log.<br>* Signifies that instrument limit reached. | Type               | W Water sample                                           |
|             |                                                                                                                                                                                                                                         |                    | U Undisturbed thick-walled sample 100mm diameter sampler |
|             |                                                                                                                                                                                                                                         |                    | UT Undisturbed thin walled sample 100mm diameter sampler |
|             |                                                                                                                                                                                                                                         |                    | UTF Failed undisturbed sample                            |

## Water observations

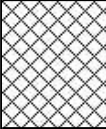
Described at foot of log and shown in the 'water strike' column.

▼ Water level observed after specified delay in drilling

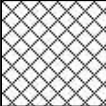
∇ Water strike

## Density

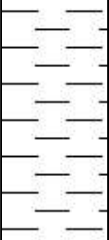
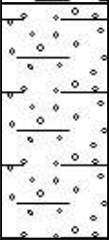
Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

| STRATA                                                                                                                                        |           |                    |                                                                                     | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-------------------------------------------------------------------------------------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                                                   | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto firm to stiff brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded mudstone and brick.<br>(MADE GROUND) | 0.60      |                    |  |               |                  |        | 0.50     |        | ES   |
| TRIAL PIT TERMINATED AT 0.60m                                                                                                                 |           |                    |                                                                                     |               |                  |        |          |        |      |

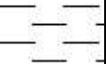
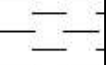
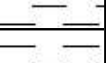
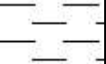
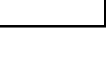
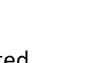
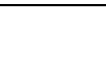
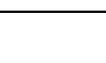
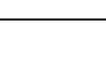
|                                                      |                                 |          |                                     |                                            |                                     |
|------------------------------------------------------|---------------------------------|----------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Hand pit for environmental sampling. | <b>Groundwater observations</b> |          | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.20m x 0.20m | <b>Date(s)</b><br>15/12/2025        |
|                                                      | Strike (m)                      | Comments | <b>Method</b><br>Hand excavated     | <b>Plant used</b><br>Hand tools            | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                      |                                 |          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                      |                                 |          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>HP01</b>                         |
|                                                      | No groundwater strike recorded  |          |                                     |                                            |                                     |
|                                                      |                                 |          |                                     |                                            |                                     |

| STRATA                                                                                                                                      |           |                    |                                                                                     | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-------------------------------------------------------------------------------------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                                                 | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto firm to stiff reddish brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded mudstone.<br>(MADE GROUND) | 0.50      |                    |  |               |                  |        | 0.40     |        | ES   |
| TRIAL PIT TERMINATED AT 0.50m                                                                                                               |           |                    |                                                                                     |               |                  |        |          |        |      |

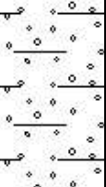
|                                                      |                                 |          |                                     |                                 |                                     |
|------------------------------------------------------|---------------------------------|----------|-------------------------------------|---------------------------------|-------------------------------------|
| <b>Notes</b><br>Hand pit for environmental sampling. | <b>Groundwater observations</b> |          | <b>Title</b>                        | <b>Dimensions (w x l)</b>       | <b>Date(s)</b>                      |
|                                                      | Strike (m)                      | Comments | Trial pit record                    | 0.20m x 0.20m                   | 15/12/2025 - 15/02/2026             |
|                                                      |                                 |          | <b>Method</b><br>Hand excavated     | <b>Plant used</b><br>Hand tools | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                      |                                 |          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW          | <b>Revision</b><br>A                |
|                                                      |                                 |          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL          | <b>HP02</b>                         |
|                                                      | No groundwater strike recorded  |          |                                     |                                 |                                     |

| STRATA                                                                                                       |           |                    |                                                                                      | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|--------------------------------------------------------------------------------------------------------------|-----------|--------------------|--------------------------------------------------------------------------------------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                  | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                               |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto dark brown slightly sandy organic CLAY.<br>(TOPSOIL)                                              | 0.50      |                    |   |               | PP 0.60          | PP 75  | 0.70     |        | D    |
| Firm light greyish brown CLAY.<br>(WEALD CLAY FORMATION - MUDSTONE)                                          |           |                    |   |               |                  |        |          |        |      |
| Dense greyish brown clayey fine to coarse angular to subrounded GRAVEL.<br>(WEALD CLAY FORMATION - MUDSTONE) |           |                    |  |               |                  |        |          |        |      |
| TRIAL PIT TERMINATED AT 2.80m                                                                                | 2.80      |                    |                                                                                      |               |                  |        |          |        |      |

|                                                                                                     |                                 |          |                                     |                                            |                                     |
|-----------------------------------------------------------------------------------------------------|---------------------------------|----------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Trial pit side remained upright and stable. Terminated due to competency of strata. | <b>Groundwater observations</b> |          | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.60m x 2.00m | <b>Date(s)</b><br>15/12/2025        |
|                                                                                                     | Strike (m)                      | Comments | <b>Method</b><br>Machine excavated  | <b>Plant used</b><br>5T tracked excavator  | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                                                                     |                                 |          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                                                                     |                                 |          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>TP01</b>                         |
|                                                                                                     | No groundwater strike recorded  |          |                                     |                                            |                                     |

| STRATA                                                                                                                                    |           |                    |                                                                                       | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|---------------------------------------------------------------------------------------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                                               | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                                |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto dark brown slightly sandy CLAY. (TOPSOIL)                                                                                      | 0.30      |                    |    |               | PP 0.80          | PP 75  | 0.20     |        | D    |
| Firm light greyish brown CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                          |           |                    |    |               |                  |        | 0.50     |        | D    |
|                                                                                                                                           |           |                    |    |               |                  |        | 1.10     |        | D    |
|                                                                                                                                           |           |                    |    |               |                  |        | 1.70     |        | D    |
| Stiff reddish brown slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded mudstone. (WEALD CLAY FORMATION - MUDSTONE) | 1.60      |                    |    |               | PP 1.30          | PP 88  |          |        |      |
|                                                                                                                                           |           |                    |    |               | PP 1.80          | PP 129 |          |        |      |
| ...at 2.5m depth, becoming slightly sandy                                                                                                 | 2.60      |                    |    |               |                  |        |          |        |      |
| TRIAL PIT TERMINATED AT 2.60m                                                                                                             |           |                    |                                                                                       |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |   |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |
|                                                                                                                                           |           |                    |  |               |                  |        |          |        |      |

|                                                                                                     |                                 |          |                                     |                                            |                                     |
|-----------------------------------------------------------------------------------------------------|---------------------------------|----------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Trial pit side remained upright and stable. Terminated due to competency of strata. | <b>Groundwater observations</b> |          | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.60m x 2.00m | <b>Date(s)</b><br>15/12/2025        |
|                                                                                                     | Strike (m)                      | Comments | <b>Method</b><br>Machine excavated  | <b>Plant used</b><br>5T tracked excavator  | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                                                                     |                                 |          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                                                                     |                                 |          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>TP02</b>                         |
|                                                                                                     | No groundwater strike recorded  |          |                                     |                                            |                                     |

| STRATA                                                                                                                             |           |                    |                                                                                     | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-------------------------------------------------------------------------------------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                                        | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular brick.<br>(TOPSOIL - MADE GROUND) | 0.40      |                    |  |               |                  |        | 0.10     |        | ES   |
| Firm light greyish brown CLAY.<br>(WEALD CLAY FORMATION - MUDSTONE)                                                                |           |                    |  |               |                  |        | 0.80     |        | D    |
| Stiff red gravelly CLAY. Gravel is fine to coarse subangular mudstone.<br>(WEALD CLAY FORMATION - MUDSTONE)                        | 1.50      |                    |  |               |                  |        | 1.70     |        | D    |
| Stiff grey gravelly CLAY. Gravel is fine to coarse subangular mudstone.<br>(WEALD CLAY FORMATION - MUDSTONE)                       | 2.40      |                    |  |               |                  |        | 2.50     |        | D    |
| TRIAL PIT TERMINATED AT 2.70m                                                                                                      | 2.70      |                    |                                                                                     |               |                  |        |          |        |      |

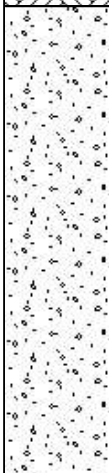
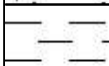
|                                                                                                     |                                 |          |                                     |                                            |                                     |
|-----------------------------------------------------------------------------------------------------|---------------------------------|----------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Trial pit side remained upright and stable. Terminated due to competency of strata. | <b>Groundwater observations</b> |          | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.60m x 2.00m | <b>Date(s)</b><br>15/12/2025        |
|                                                                                                     | Strike (m)                      | Comments | <b>Method</b><br>Machine excavated  | <b>Plant used</b><br>5T tracked excavator  | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                                                                     |                                 |          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                                                                     |                                 |          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>TP03</b>                         |
|                                                                                                     | No groundwater strike recorded  |          |                                     |                                            |                                     |

| STRATA                                                                                                                |           |                    |        | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|-----------------------------------------------------------------------------------------------------------------------|-----------|--------------------|--------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                           | DEPTH (m) | REDUCED LVL (m OD) | LEGEND |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto dark brown slightly sandy organic CLAY.<br>(TOPSOIL)                                                       | 0.40      |                    |        |               |                  |        |          |        |      |
| Firm light greyish brown CLAY.<br>(WEALD CLAY FORMATION - MUDSTONE)                                                   |           |                    |        |               |                  |        |          |        |      |
| Stiff reddish brown gravelly CLAY. Gravel is fine to coarse subangular mudstone.<br>(WEALD CLAY FORMATION - MUDSTONE) | 1.40      |                    |        |               |                  |        | 1.00     |        | D    |
| Stiff grey gravelly CLAY. Gravel is fine to coarse subangular mudstone.<br>(WEALD CLAY FORMATION - MUDSTONE)          | 2.00      |                    |        |               |                  |        | 1.50     |        | D    |
|                                                                                                                       | 2.30      |                    |        |               |                  |        | 2.20     |        | D    |
| TRIAL PIT TERMINATED AT 2.30m                                                                                         |           |                    |        |               |                  |        |          |        |      |

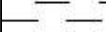
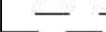
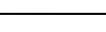
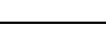
|                                                                                                     |                                 |          |                                     |                                            |                                     |
|-----------------------------------------------------------------------------------------------------|---------------------------------|----------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Trial pit side remained upright and stable. Terminated due to competency of strata. | <b>Groundwater observations</b> |          | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.60m x 2.00m | <b>Date(s)</b><br>15/12/2025        |
|                                                                                                     | Strike (m)                      | Comments | <b>Method</b><br>Machine excavated  | <b>Plant used</b><br>5T tracked excavator  | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                                                                     |                                 |          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                                                                     |                                 |          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>TP04</b>                         |
|                                                                                                     | No groundwater strike recorded  |          |                                     |                                            |                                     |

| STRATA                                                                                                                                                |           |                    |                                                                                     | WATER STRIKES                                                                       | IN SITU TESTING  |        | SAMPLING |        |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                                                           | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                              |                                                                                     | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto dark brown slightly sandy organic CLAY. (TOPSOIL)                                                                                          | 0.30      |                    |  |  |                  |        | 0.60     | 1.00   | B    |
| [Medium dense] greyish brown fine to coarse SAND. (WEALD CLAY FORMATION - SANDSTONE)                                                                  |           |                    |  |                                                                                     |                  |        |          |        |      |
| [Medium dense] dark yellowish brown mottled grey sandy fine to coarse subangular to subrounded GRAVEL of mudstone. (WEALD CLAY FORMATION - SANDSTONE) | 1.80      |                    |  |  |                  |        | 1.60     | 2.20   | D    |
|                                                                                                                                                       |           |                    |                                                                                     |                                                                                     |                  |        | 1.80     |        | B    |
| TRIAL PIT TERMINATED AT 2.50m                                                                                                                         | 2.50      |                    |                                                                                     |                                                                                     |                  |        |          |        |      |
|                                                                                                                                                       |           |                    |                                                                                     |                                                                                     |                  |        |          |        |      |

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|------------------------------------------------------------------------------------------|---------------------------------|----------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Trial pit collapsed to 1.8m bgl. Terminated due to instability/collapse. | <b>Groundwater observations</b> |                            | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.60m x 2.00m | <b>Date(s)</b><br>15/12/2025        |
|                                                                                          | Strike (m)                      | Comments                   | <b>Method</b><br>Machine excavated  | <b>Plant used</b><br>5T tracked excavator  | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                                                          | 0.90                            | Slight seepage             |                                     |                                            |                                     |
|                                                                                          | 2.20                            | Fast flow, caused collapse | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                                                          |                                 |                            |                                     |                                            |                                     |
|                                                                                          |                                 |                            | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>TP05</b>                         |
|                                                                                          |                                 |                            |                                     |                                            |                                     |

| STRATA                                                                                                                                                      |           |                    |                                                                                      | WATER STRIKES                                                                       | IN SITU TESTING  |        | SAMPLING |        |      |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|--------|----------|--------|------|--|--|--|--|--|--|--|--|
| DESCRIPTION                                                                                                                                                 | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                               |                                                                                     | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |  |  |  |  |  |  |  |  |
| Grass onto dark brown slightly sandy organic CLAY. (TOPSOIL)                                                                                                | 0.30      |                    |   |  |                  |        |          |        |      |  |  |  |  |  |  |  |  |
| [Medium dense] dark yellowish brown slightly gravelly SAND. Gravel is fine to coarse subangular to subrounded sandstone. (WEALD CLAY FORMATION - SANDSTONE) |           |                    |   |                                                                                     |                  |        |          |        |      |  |  |  |  |  |  |  |  |
|                                                                                                                                                             |           |                    |                                                                                      |                                                                                     |                  |        |          |        |      |  |  |  |  |  |  |  |  |
| Stiff grey CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                                                          | 2.50      |                    |   |                                                                                     | PP 2.70          | PP 134 | 2.30     |        | D    |  |  |  |  |  |  |  |  |
| TRIAL PIT TERMINATED AT 2.80m                                                                                                                               | 2.80      |                    |  |                                                                                     |                  |        | 2.60     |        | D    |  |  |  |  |  |  |  |  |
|                                                                                                                                                             |           |                    |                                                                                      |                                                                                     |                  |        |          |        |      |  |  |  |  |  |  |  |  |

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|--------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Notes</b><br>Trial pit side remained upright and stable. Terminated at scheduled depth. | <b>Groundwater observations</b> |                                          | <b>Title</b><br>Trial pit record    | <b>Dimensions (w x l)</b><br>0.60m x 2.00m | <b>Date(s)</b><br>15/12/2025        |
|                                                                                            | Strike (m)                      | Comments                                 | <b>Method</b><br>Machine excavated  | <b>Plant used</b><br>5T tracked excavator  | <b>Sheet number</b><br>Sheet 1 of 1 |
|                                                                                            | 2.40                            | Filling base of pit by 50mm in 5 minutes |                                     |                                            |                                     |
|                                                                                            |                                 |                                          | <b>Level (m OD)</b><br>-            | <b>Logged by</b><br>OW                     | <b>Revision</b><br>A                |
|                                                                                            |                                 |                                          | <b>Co-ordinates</b><br>Not surveyed | <b>Status</b><br>FINAL                     | <b>TP06</b>                         |
|                                                                                            |                                 |                                          |                                     |                                            |                                     |

| STRATA                                                                                                      |           |                    |                                                                                       | WATER STRIKES | IN SITU TESTING  |        | SAMPLING |        |      |
|-------------------------------------------------------------------------------------------------------------|-----------|--------------------|---------------------------------------------------------------------------------------|---------------|------------------|--------|----------|--------|------|
| DESCRIPTION                                                                                                 | DEPTH (m) | REDUCED LVL (m OD) | LEGEND                                                                                |               | TYPE / DEPTH (m) | RESULT | FROM (m) | TO (m) | TYPE |
| Grass onto dark brown slightly sandy organic CLAY.<br>(TOPSOIL)                                             | 0.15      |                    |    |               |                  |        |          |        |      |
| Firm light greyish brown CLAY.<br>(WEALD CLAY FORMATION - MUDSTONE)                                         |           |                    |    |               | PP 0.50          | PP 67  | 0.50     |        | D    |
|                                                                                                             |           |                    |    |               | PP 0.90          | PP 75  |          |        |      |
|                                                                                                             | 1.30      |                    |    |               |                  |        | 1.20     |        | D    |
| Stiff red gravelly CLAY. Gravel is fine to coarse subangular mudstone.<br>(WEALD CLAY FORMATION - MUDSTONE) |           |                    |    |               | PP 1.60          | PP 138 |          |        |      |
|                                                                                                             |           |                    |    |               |                  |        | 1.80     |        | D    |
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## Key to legends

| Composite materials, soils and lithology                                          |         |                                                                                   |             |                                                                                     |           |
|-----------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------|
|  | Topsoil |  | Made Ground |    | Boulders  |
|  | Clay    |  | Coal        |    | Cobbles   |
|  | Gravel  |  | Limestone   |    | Mudstone  |
|  | Sand    |  | Sandstone   |    | Silt      |
|                                                                                   |         |                                                                                   |             |  | Siltstone |
|                                                                                   |         |                                                                                   |             |  | Chalk     |
|                                                                                   |         |                                                                                   |             |  | Concrete  |
|                                                                                   |         |                                                                                   |             |  | Peat      |

Note: Composite soil types are signified by combined symbols.

## Key to 'test results' and 'sampling' columns

| Test result |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | From (m)<br>To (m) | Records depth of sampling |                                                           |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|-----------------------------------------------------------|
| Depth       | Records depth that the test was carried out (i.e.: at 2.10m or between 2.10m and 2.55m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | D                         | Disturbed sample                                          |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | B                         | Bulk disturbed sample                                     |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | ES                        | Environmental sample                                      |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | SPTLS                     | SPT liner sample                                          |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Type               | W                         | Water sample                                              |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | U                         | Undisturbed thick-walled sample<br>100mm diameter sampler |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | UT                        | Undisturbed thin walled sample<br>100mm diameter sampler  |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | UTF                       | Failed undisturbed sample                                 |
| Result      | <p>PP – Pocket penetrometer result reported as an equivalent undrained shear strength (kN/m<sup>2</sup>) by applying a factor of 50.</p> <p>SV – Hand held shear vane result reported as an undrained shear strength (kN/m<sup>2</sup>). Where multiple readings are taken at the same level the average value is shown on the log.<br/>* Signifies that instrument limit reached.</p> <p>SPT – Standard Penetration Test result (N value uncorrected)<sup>1,2,3</sup><br/>SPT(c) – Standard Penetration Test result (solid cone) (N value) (uncorrected)<sup>1,2,3</sup><br/>* Signifies that the test was terminated before full penetration was achieved.</p> <p>UT – Undisturbed sample 100mm diameter sampler with number of blows of driving equipment required to obtain sample</p> |                    |                           |                                                           |
| Sampling    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                           |                                                           |

Note 1: Total seating blows recorded in brackets.

Note 2: Casing depth records depth of casing when SPT or SPT(c) was carried out.

Note 3: Water depth records depth of water when SPT or SPT(c) was carried out.

## Water observations

Described at foot of log and shown in the 'water strike' column.

 Water level observed after specified delay in drilling

 Water strike

## Density

Density recorded in brackets determined by qualitative field assessment or inferred from density testing and soil descriptions from across the site (i.e.: [Medium dense]).

## Installation details

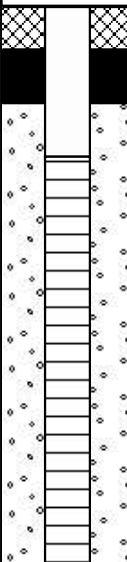
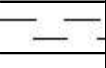
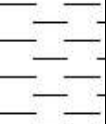
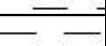
|                                                                                     |                     |                                                                                       |                           |
|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|---------------------------|
|  | Gravel filter       |  | Bentonite                 |
|  | Slotted pipe        |  | Unslotted pipe            |
|  | Arisings            |  | Grout                     |
|  | Extensometer magnet |  | Vibrating wire piezometer |

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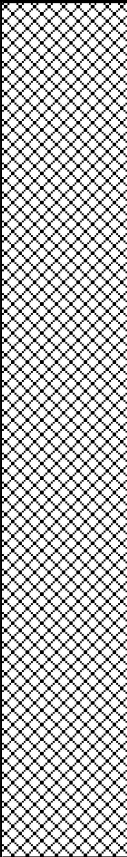
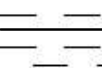
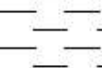
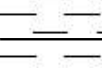
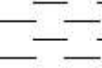
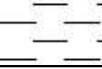
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[illegible]

|                                                         |                                 |       |        |        |        |          |                            |                     |                                    |                   |                     |
|---------------------------------------------------------|---------------------------------|-------|--------|--------|--------|----------|----------------------------|---------------------|------------------------------------|-------------------|---------------------|
| <b>Notes</b><br>Terminated due to competency of strata. | <b>Groundwater observations</b> |       |        |        |        |          | <b>Recovery details</b>    |                     | <b>Title</b>                       |                   | <b>Date(s)</b>      |
|                                                         | Strike (m)                      | 5mins | 10mins | 15mins | 20mins | Comments | Range (m)                  | % Recv              | Dynamic windowless sampling record |                   | 15/12/2025          |
|                                                         |                                 |       |        |        |        |          | 1.00 - 2.00<br>2.00 - 3.00 | 100<br>100          | <b>Method</b>                      | <b>Plant used</b> | <b>Sheet number</b> |
|                                                         |                                 |       |        |        |        |          |                            |                     | Windowless Sampling                | Dando Terrier     | Sheet 1 of 1        |
|                                                         |                                 |       |        |        |        |          |                            |                     | <b>Level (m OD)</b>                | <b>Logged by</b>  | <b>Revision</b>     |
|                                                         | -                               | ML    | A      |        |        |          |                            |                     |                                    |                   |                     |
| No groundwater strike recorded                          |                                 |       |        |        |        |          |                            | <b>Co-ordinates</b> | <b>Status</b>                      | <b>WLS01</b>      |                     |
|                                                         |                                 |       |        |        |        |          |                            | Not surveyed        | FINAL                              |                   |                     |

| INSTALL                                                                           | STRATA                                                                                                                                |           |                   |                                                                                     | WATER STRIKES | SPT TESTING      |          |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|-------------------------------------------------------------------------------------|---------------|------------------|----------|------------------|-----------------|-----------------------|--------|----------|--------|------|
|                                                                                   | DESCRIPTION                                                                                                                           | DEPTH (m) | REDUCED LVL (mOD) | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT   | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |
|  | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                                                                               | 0.40      |                   |  |               |                  |          |                  |                 |                       |        | 0.30     |        | ES   |
|                                                                                   | Soft light brown slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                               |           |                   |  |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                   | Firm light grey mottled orange CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                | 1.50      |                   |  |               | C 1.20           | (2) 10   |                  |                 |                       |        | 1.50     |        | D    |
|                                                                                   | Firm reddish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded mudstone. (WEALD CLAY FORMATION - MUDSTONE) | 1.74      |                   |  |               | C 2.00           | (9) 33   |                  |                 |                       |        |          |        |      |
|                                                                                   | Stiff light grey slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                               | 2.45      |                   |  |               | C 2.60           | (17) 83* |                  |                 |                       |        | 2.30     |        | D    |
| BOREHOLE TERMINATED AT 2.60m                                                      |                                                                                                                                       | 2.60      |                   |                                                                                     |               |                  |          |                  |                 |                       |        |          |        |      |

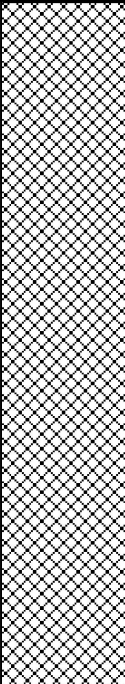
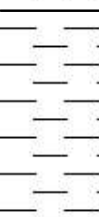
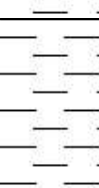
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|--------------------------------------------------|--------------------------|-------|--------|--------|--------|----------|----------------------------|--------------|---------------------------------------------|---------------|-----------------------|
| Notes<br>Terminated due to competency of strata. | Groundwater observations |       |        |        |        |          | Recovery details           |              | Title<br>Dynamic windowless sampling record |               | Date(s)<br>15/12/2025 |
|                                                  | Strike (m)               | 5mins | 10mins | 15mins | 20mins | Comments | Range (m)                  | % Recv       |                                             |               |                       |
|                                                  |                          |       |        |        |        |          | 1.00 - 2.00<br>2.00 - 2.60 | 100<br>100   | Method                                      | Plant used    | Sheet number          |
|                                                  |                          |       |        |        |        |          |                            |              | Windowless Sampling                         | Dando Terrier | Sheet 1 of 1          |
|                                                  |                          |       |        |        |        |          |                            |              | Level (m OD)                                | Logged by     | Revision              |
|                                                  | -                        | ML    | A      |        |        |          |                            |              |                                             |               |                       |
| No groundwater strike recorded                   |                          |       |        |        |        |          |                            | Co-ordinates | Status                                      | WLS02         |                       |
|                                                  |                          |       |        |        |        |          |                            | Not surveyed | FINAL                                       |               |                       |

| INSTALL                                                                            | STRATA                                                                                                                                 |              |                   |                                                                                     | WATER STRIKES | SPT TESTING      |          |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-------------------------------------------------------------------------------------|---------------|------------------|----------|------------------|-----------------|-----------------------|--------|----------|--------|------|
|                                                                                    | DESCRIPTION                                                                                                                            | DEPTH (m)    | REDUCED LVL (mOD) | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT   | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |
|  | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                                                                                |              |                   |  |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                    | Firm light grey mottled orange CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                 | 0.40<br>0.55 |                   |  |               |                  |          |                  |                 |                       |        | 0.50     |        | ES   |
|                                                                                    | Firm light brown CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                               |              |                   |  |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                    | ...between 1.4m and 1.6m depth, becoming reddish brown                                                                                 |              |                   |  |               | C 1.20           | (4) 20   |                  |                 |                       |        |          |        |      |
|                                                                                    | Stiff light grey slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                | 1.60         |                   |  |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                    | Stiff reddish brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded mudstone. (WEALD CLAY FORMATION - MUDSTONE) | 2.40         |                   |  |               |                  |          |                  |                 |                       |        | 2.70     |        | D    |
|                                                                                    | Stiff grey mottled purple CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                      | 3.30         |                   |  |               | C 3.00           | (9) 31   |                  |                 |                       |        |          |        |      |
|                                                                                    | BOREHOLE TERMINATED AT 4.00m                                                                                                           | 4.00         |                   |                                                                                     |               | C 4.00           | (22) 71* |                  |                 |                       |        | 3.70     |        | D    |

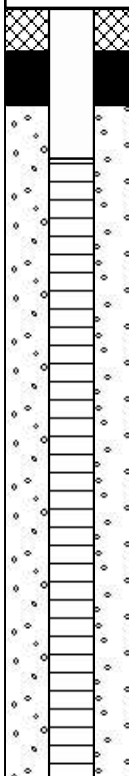
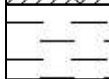
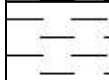
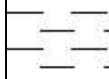
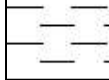
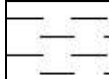
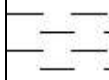
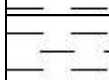
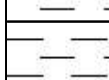
|                                                         |                                |       |        |        |        |          |                  |        |                                    |                             |                              |
|---------------------------------------------------------|--------------------------------|-------|--------|--------|--------|----------|------------------|--------|------------------------------------|-----------------------------|------------------------------|
| <b>Notes</b><br>Terminated due to competency of strata. | Groundwater observations       |       |        |        |        |          | Recovery details |        | Title                              |                             | Date(s)                      |
|                                                         | Strike (m)                     | 5mins | 10mins | 15mins | 20mins | Comments | Range (m)        | % Recv | Dynamic windowless sampling record |                             | 15/12/2025                   |
|                                                         |                                |       |        |        |        |          | 1.00 - 2.00      | 100    | Method<br>Windowless Sampling      | Plant used<br>Dando Terrier | Sheet number<br>Sheet 1 of 1 |
|                                                         |                                |       |        |        |        |          | 2.00 - 3.00      | 100    |                                    |                             |                              |
|                                                         |                                |       |        |        |        |          | 3.00 - 4.00      | 100    | Level (m OD)<br>-                  | Logged by<br>ML             | Revision<br>A                |
|                                                         | No groundwater strike recorded |       |        |        |        |          |                  |        | Co-ordinates<br>Not surveyed       | Status<br>FINAL             | WLS03                        |

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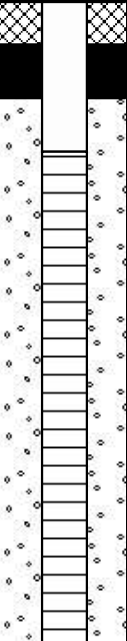
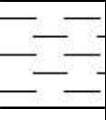
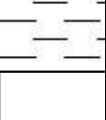
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| INSTALL                                                                            | STRATA                                                                 |           |                   |                                                                                      | WATER STRIKES | SPT TESTING      |          |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------|-------------------|--------------------------------------------------------------------------------------|---------------|------------------|----------|------------------|-----------------|-----------------------|--------|----------|--------|------|
|                                                                                    | DESCRIPTION                                                            | DEPTH (m) | REDUCED LVL (MOD) | LEGEND                                                                               |               | TYPE / DEPTH (m) | RESULT   | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |
|  | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                | 0.35      |                   |   |               | C 1.20           | (5) 15   |                  |                 |                       |        | 0.35     |        | ES   |
|                                                                                    | Firm light grey mottled orange CLAY. (WEALD CLAY FORMATION - MUDSTONE) |           |                   |   |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                    | Stiff reddish brown CLAY. (WEALD CLAY FORMATION - MUDSTONE)            | 1.35      |                   |   |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                    | Stiff grey slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)      | 2.40      |                   |  |               |                  |          |                  |                 |                       |        |          |        |      |
|                                                                                    | BOREHOLE TERMINATED AT 3.20m                                           | 3.20      |                   |                                                                                      |               | C 3.20           | (18) 78* |                  |                 |                       |        | 3.20     |        | D    |

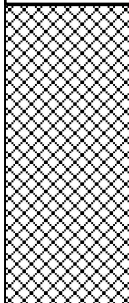
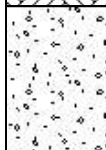
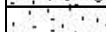
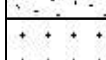
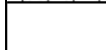
|                                                         |                                 |       |        |        |        |          |                            |                     |                                    |                   |                     |
|---------------------------------------------------------|---------------------------------|-------|--------|--------|--------|----------|----------------------------|---------------------|------------------------------------|-------------------|---------------------|
| <b>Notes</b><br>Terminated due to competency of strata. | <b>Groundwater observations</b> |       |        |        |        |          | <b>Recovery details</b>    |                     | <b>Title</b>                       |                   | <b>Date(s)</b>      |
|                                                         | Strike (m)                      | 5mins | 10mins | 15mins | 20mins | Comments | Range (m)                  | % Recv              | Dynamic windowless sampling record |                   | 15/12/2025          |
|                                                         |                                 |       |        |        |        |          | 1.20 - 2.20<br>2.20 - 3.20 | 100<br>100          | <b>Method</b>                      | <b>Plant used</b> | <b>Sheet number</b> |
|                                                         |                                 |       |        |        |        |          |                            |                     | Windowless Sampling                | Dando Terrier     | Sheet 1 of 1        |
|                                                         |                                 |       |        |        |        |          |                            |                     | <b>Level (m OD)</b>                | <b>Logged by</b>  | <b>Revision</b>     |
|                                                         | -                               | ML    | A      |        |        |          |                            |                     |                                    |                   |                     |
| No groundwater strike recorded                          |                                 |       |        |        |        |          |                            | <b>Co-ordinates</b> | <b>Status</b>                      | <b>WLS04</b>      |                     |
|                                                         |                                 |       |        |        |        |          |                            | Not surveyed        | FINAL                              |                   |                     |

| INSTALL                                                                            |                                                                                   | STRATA                                                                                                                              |                                                                                       |                                                                                     |                                                                                     | WATER STRIKES | SPT TESTING      |        |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |  |  |  |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|------------------|--------|------------------|-----------------|-----------------------|--------|----------|--------|------|--|--|--|
|                                                                                    |                                                                                   | DESCRIPTION                                                                                                                         | DEPTH (m)                                                                             | REDUCED LVL (mOD)                                                                   | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |  |  |  |
|  |  | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                                                                             | 0.35                                                                                  |  |  | C 1.20        | (3) 10           |        |                  |                 |                       | 0.25   |          | ES     |      |  |  |  |
|                                                                                    |  | Firm light brown CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                                            |                                                                                       |                                                                                     |  |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |
|                                                                                    |  | Firm light grey mottled orange CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                              | 0.70                                                                                  |                                                                                     |  |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |
|                                                                                    |  |                                                                                                                                     |                                                                                       |                                                                                     |  | C 2.00        | (10) 25          |        |                  |                 |                       | 2.25   |          | D      |      |  |  |  |
|                                                                                    |  | Firm light brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded mudstone. (WEALD CLAY FORMATION - MUDSTONE) | 1.80                                                                                  |                                                                                     |  |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |
|                                                                                    |  |                                                                                                                                     |                                                                                       |                                                                                     |  |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |
|                                                                                    |  | Stiff brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded mudstone. (WEALD CLAY FORMATION - MUDSTONE)      | 2.60                                                                                  |                                                                                     |  | C 3.00        | (9) 43           |        |                  |                 |                       | 3.30   |          | D      |      |  |  |  |
|   | Firm grey slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                  | 3.00                                                                                                                                |   |                                                                                     |                                                                                     |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |
|   |                                                                                   |                                                                                                                                     |  |                                                                                     |                                                                                     |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |
|                                                                                    |                                                                                   | BOREHOLE TERMINATED AT 3.60m                                                                                                        | 3.60                                                                                  |                                                                                     |                                                                                     |               |                  |        |                  |                 |                       |        |          |        |      |  |  |  |

| Notes<br>Terminated due to competency of strata. | Groundwater observations |       |        |        |        |                  | Recovery details |        | Title                              |                             | Date(s)                      |
|--------------------------------------------------|--------------------------|-------|--------|--------|--------|------------------|------------------|--------|------------------------------------|-----------------------------|------------------------------|
|                                                  | Strike (m)               | 5mins | 10mins | 15mins | 20mins | Comments         | Range (m)        | % Recv | Dynamic windowless sampling record |                             | 15/12/2025                   |
|                                                  | 2.10                     | 2.10  | 2.10   | 2.10   | 2.10   | No rise recorded | 1.00 - 2.00      | 100    | Method<br>Windowless Sampling      | Plant used<br>Dando Terrier | Sheet number<br>Sheet 1 of 1 |
|                                                  |                          |       |        |        |        |                  | 2.00 - 3.00      | 100    |                                    |                             |                              |
|                                                  |                          |       |        |        |        |                  | 3.00 - 3.60      | 100    | Level (m OD)<br>-                  | Logged by<br>ML             | Revision<br>A                |
|                                                  |                          |       |        |        |        |                  |                  |        | Co-ordinates<br>Not surveyed       | Status<br>FINAL             | WLS05                        |

| INSTALL                                                                            | STRATA                                                                                                               |           |                   |                                                                                      | WATER STRIKES                                                                                                                                                              | SPT TESTING      |         |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------|-------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|------------------|-----------------|-----------------------|--------|----------|--------|------|
|                                                                                    | DESCRIPTION                                                                                                          | DEPTH (m) | REDUCED LVL (mOD) | LEGEND                                                                               |                                                                                                                                                                            | TYPE / DEPTH (m) | RESULT  | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |
|  | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                                                              | 0.45      |                   |   | <br> | C 1.20           | (6) 14  |                  |                 |                       |        | 0.45     |        | ES   |
|                                                                                    | Soft creamy orange very sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                |           |                   |   |                                                                                                                                                                            |                  |         |                  |                 |                       |        |          |        |      |
|                                                                                    | Firm light grey very sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                   | 1.00      |                   |   |                                                                                                                                                                            |                  |         |                  |                 |                       |        | 1.20     |        | D    |
|                                                                                    | Stiff multicoloured slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                           | 1.50      |                   |   |                                                                                                                                                                            |                  |         |                  |                 |                       |        |          |        |      |
|                                                                                    | Stiff purplish red CLAY. (WEALD CLAY FORMATION - MUDSTONE)<br>...between 2m and 2.25m depth, band of grey fine sand. | 2.00      |                   |   |                                                                                                                                                                            |                  |         |                  |                 |                       |        | 2.80     |        | D    |
|                                                                                    | BOREHOLE TERMINATED AT 3.00m                                                                                         | 3.00      |                   |  |                                                                                                                                                                            | C 3.00           | (9) 73* |                  |                 |                       |        |          |        |      |

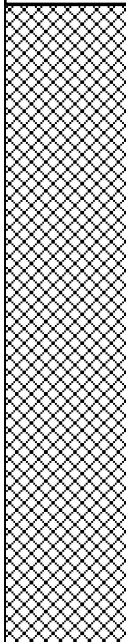
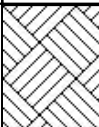
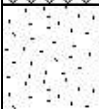
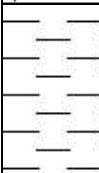
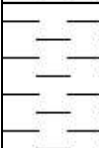
| Notes<br>Terminated due to competency of strata. | Groundwater observations |       |        |        |        |                      | Recovery details |        | Title                              |                             | Date(s)                      |
|--------------------------------------------------|--------------------------|-------|--------|--------|--------|----------------------|------------------|--------|------------------------------------|-----------------------------|------------------------------|
|                                                  | Strike (m)               | 5mins | 10mins | 15mins | 20mins | Comments             | Range (m)        | % Recv | Dynamic windowless sampling record |                             | 16/12/2025                   |
|                                                  | 1.40                     | 1.34  | 1.25   | 1.2    | 1.15   | Rose to 0.7m in 2hrs | 1.00 - 2.00      | 100    | Method<br>Windowless Sampling      | Plant used<br>Dando Terrier | Sheet number<br>Sheet 1 of 1 |
|                                                  |                          |       |        |        |        |                      | 2.00 - 3.00      | 100    |                                    |                             |                              |
|                                                  |                          |       |        |        |        |                      |                  |        | Level (m OD)<br>-                  | Logged by<br>ML             | Revision<br>A                |
|                                                  |                          |       |        |        |        |                      |                  |        | Co-ordinates<br>Not surveyed       | Status<br>FINAL             | WLS06                        |

| INSTALL                                                                                | STRATA                                                                                                                      |                                                                                     |                   |                                                                                     | WATER STRIKES | SPT TESTING      |           |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|---------------|------------------|-----------|------------------|-----------------|-----------------------|--------|----------|--------|------|--|--|--|--|--|--|--|--|--|--|--|
|                                                                                        | DESCRIPTION                                                                                                                 | DEPTH (m)                                                                           | REDUCED LVL (mOD) | LEGEND                                                                              |               | TYPE / DEPTH (m) | RESULT    | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |  |  |  |  |  |  |  |  |  |  |  |
|       | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                                                                     | 0.30                                                                                |                   |  |               | C 1.40           | (25)* 50* |                  |                 |                       |        | 0.30     |        | ES   |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        | [Medium dense] creamy brown gravelly clayey SAND. Gravel is coarse subangular sandstone. (WEALD CLAY FORMATION - SANDSTONE) |                                                                                     |                   |  |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        | [Medium dense] light brown fine SAND. (WEALD CLAY FORMATION - SANDSTONE)                                                    | 1.00                                                                                |                   |  |               |                  |           |                  |                 |                       |        | 1.30     |        | D    |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        | (WEALD CLAY FORMATION - SANDSTONE)                                                                                          | 1.20                                                                                |                   |  |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
| Weak light grey SANDSTONE with dark brown staining. (WEALD CLAY FORMATION - SANDSTONE) | 1.40                                                                                                                        |  |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
| BOREHOLE TERMINATED AT 1.40m                                                           |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|      |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                        |                                                                                                                             |                                                                                     |                   |                                                                                     |               |                  |           |                  |                 |                       |        |          |        |      |  |  |  |  |  |  |  |  |  |  |  |

|                                         |                                |       |        |        |        |          |                  |        |                                             |                             |                              |
|-----------------------------------------|--------------------------------|-------|--------|--------|--------|----------|------------------|--------|---------------------------------------------|-----------------------------|------------------------------|
| Notes<br>Terminated due to SPT refusal. | Groundwater observations       |       |        |        |        |          | Recovery details |        | Title<br>Dynamic windowless sampling record |                             | Date(s)<br>16/12/2025        |
|                                         | Strike (m)                     | 5mins | 10mins | 15mins | 20mins | Comments | Range (m)        | % Recv |                                             |                             |                              |
|                                         |                                |       |        |        |        |          | 1.00 - 1.40      | 100    | Method<br>Windowless Sampling               | Plant used<br>Dando Terrier | Sheet number<br>Sheet 1 of 1 |
|                                         |                                |       |        |        |        |          |                  |        | Level (m OD)<br>-                           | Logged by<br>ML             | Revision<br>A                |
|                                         |                                |       |        |        |        |          |                  |        | Co-ordinates<br>Not surveyed                | Status<br>FINAL             | WLS07                        |
|                                         | No groundwater strike recorded |       |        |        |        |          |                  |        |                                             |                             |                              |

STX7305

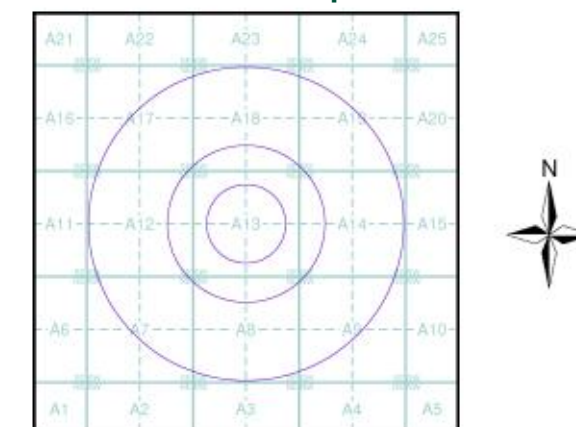
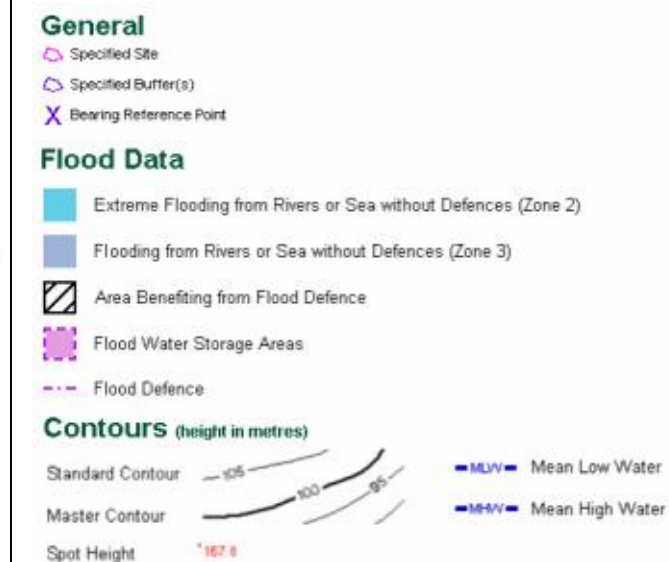
soiltechnics  
environmental • geotechnical • building fabric

| INSTALL                                                                            | STRATA                                                                                                                         |           |                   |                                                                                      | WATER STRIKES | SPT TESTING      |          |                  |                 | OTHER IN SITU TESTING |        | SAMPLING |        |      |    |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|--------------------------------------------------------------------------------------|---------------|------------------|----------|------------------|-----------------|-----------------------|--------|----------|--------|------|----|
|                                                                                    | DESCRIPTION                                                                                                                    | DEPTH (m) | REDUCED LVL (mOD) | LEGEND                                                                               |               | TYPE / DEPTH (m) | RESULT   | CASING DEPTH (m) | WATER LEVEL (m) | TYPE / DEPTH (m)      | RESULT | FROM (m) | TO (m) | TYPE |    |
|  | Grass onto brown slightly sandy organic CLAY. (TOPSOIL)                                                                        |           |                   |   |               |                  |          |                  |                 |                       |        |          | 0.50   |      | ES |
|                                                                                    | Soft brown slightly sandy slightly gravelly CLAY. Gravel is coarse angular brick and concrete. (MADE GROUND)                   | 0.60      |                   |   |               |                  |          |                  |                 |                       |        |          |        |      |    |
|                                                                                    | [Medium dense] multicoloured slightly clayey fine SAND. (WEALD CLAY FORMATION - SANDSTONE)                                     | 1.00      |                   |   |               | C 1.20           | (10) 24  |                  |                 |                       |        |          | 1.10   |      | D  |
|                                                                                    | Stiff light grey slightly sandy CLAY. (WEALD CLAY FORMATION - MUDSTONE)                                                        | 1.50      |                   |   |               | C 2.00           | (5) 24   |                  |                 |                       |        |          |        |      |    |
|                                                                                    | Stiff brown slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded mudstone. (WEALD CLAY FORMATION - MUDSTONE) | 2.30      |                   |  |               |                  |          |                  |                 |                       |        |          | 2.40   |      | D  |
|                                                                                    | BOREHOLE TERMINATED AT 3.00m                                                                                                   | 3.00      |                   |                                                                                      |               | C 3.00           | (18) 80* |                  |                 |                       |        |          |        |      |    |

|                                                |                                 |       |        |        |        |          |                            |                     |                                    |                   |                     |
|------------------------------------------------|---------------------------------|-------|--------|--------|--------|----------|----------------------------|---------------------|------------------------------------|-------------------|---------------------|
| <b>Notes</b><br>Terminated due to SPT refusal. | <b>Groundwater observations</b> |       |        |        |        |          | <b>Recovery details</b>    |                     | <b>Title</b>                       |                   | <b>Date(s)</b>      |
|                                                | Strike (m)                      | 5mins | 10mins | 15mins | 20mins | Comments | Range (m)                  | % Recv              | Dynamic windowless sampling record |                   | 16/12/2025          |
|                                                |                                 |       |        |        |        |          | 1.00 - 2.00<br>2.00 - 3.00 | 100<br>100          | <b>Method</b>                      | <b>Plant used</b> | <b>Sheet number</b> |
|                                                |                                 |       |        |        |        |          |                            |                     | Windowless Sampling                | Dando Terrier     | Sheet 1 of 1        |
|                                                |                                 |       |        |        |        |          |                            |                     | <b>Level (m OD)</b>                | <b>Logged by</b>  | <b>Revision</b>     |
|                                                | -                               | ML    | A      |        |        |          |                            |                     |                                    |                   |                     |
| No groundwater strike recorded                 |                                 |       |        |        |        |          |                            | <b>Co-ordinates</b> | <b>Status</b>                      | <b>WLS08</b>      |                     |
|                                                |                                 |       |        |        |        |          |                            | Not surveyed        | FINAL                              |                   |                     |

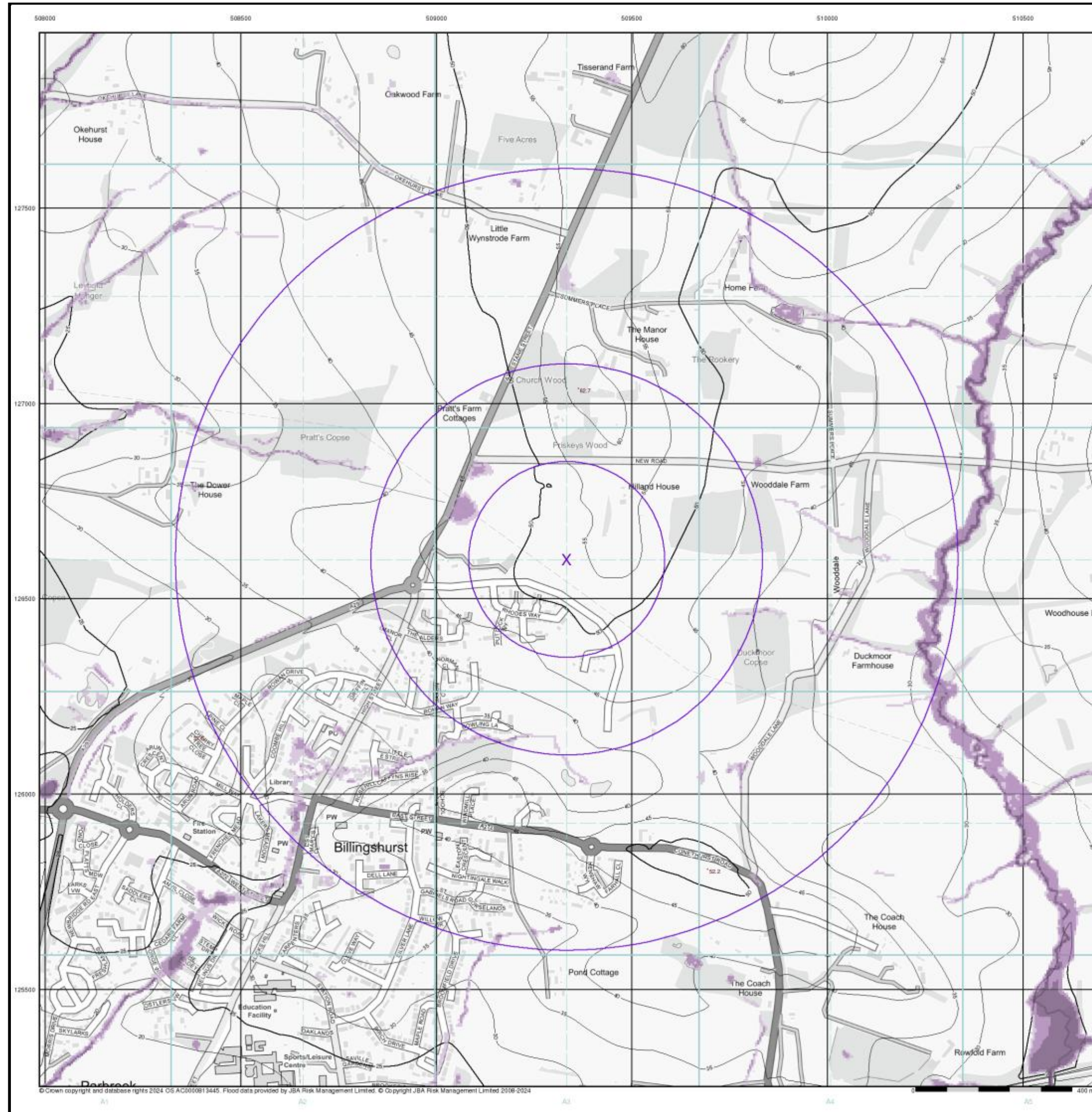
## Appendix F

### Envirocheck Flood Screening Report



|                          |                |
|--------------------------|----------------|
| Order Number:            | 360250553_1_1  |
| Customer Ref:            | 1dubil 1904029 |
| National Grid Reference: | 509330, 126600 |
| Slice:                   | A              |
| Site Area (Ha):          | 0.01           |
| Search Buffer (m):       | 1000           |

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN



# 

## JBA 75 Year Return Flood Map (Un defended) (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

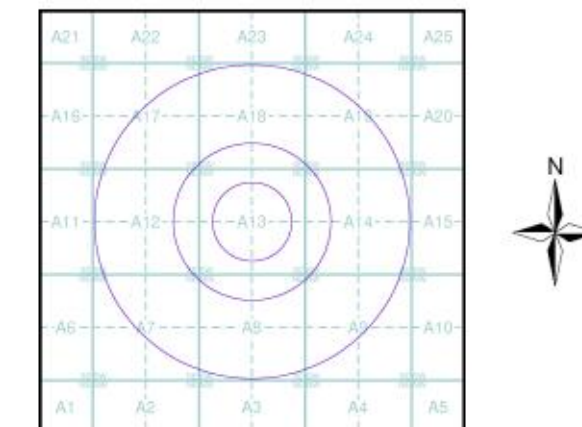
### Modelled Flood Depth

| Pluvial Depth | Fluvial Depth | Coastal Depth |
|---------------|---------------|---------------|
| 0.1m          | 0.01m - 0.05m | 0.01m - 0.05m |
| 0.1m - 0.3m   | 0.05m - 0.1m  | 0.05m - 0.1m  |
| 0.3m - 1m     | 0.1m - 0.3m   | 0.1m - 0.3m   |
| >1m           | 0.3m - 1m     | 0.3m - 1m     |
|               | >1m           | >1m           |

### Contours (height in metres)

- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
- MHW Mean High Water

## JBA 75 Year Return Flood Map (Un defended) - Slice A



### Order Details

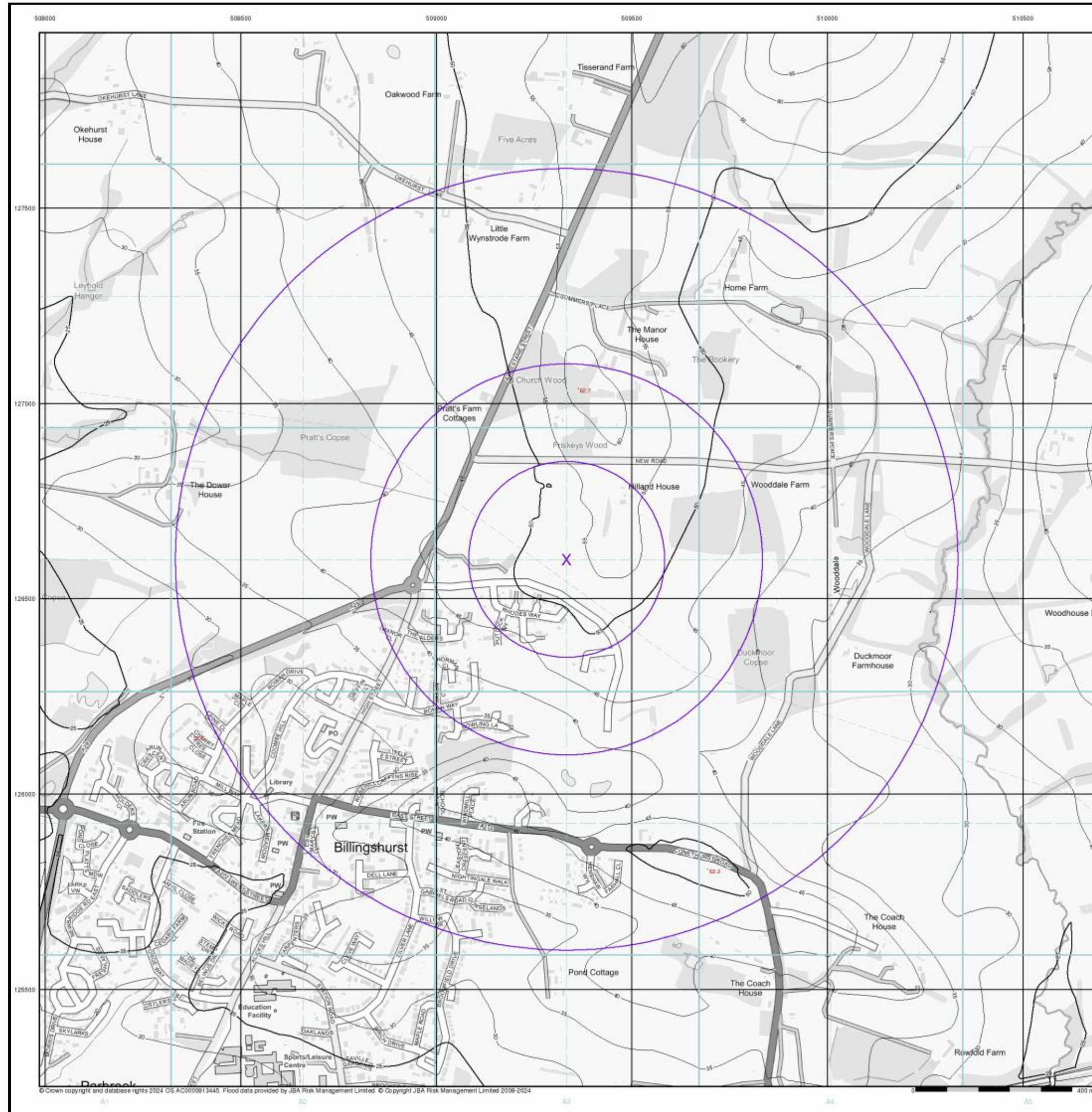
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

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INFORMATION GROUP

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Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



# motion

## JBA 100 Year Return Flood Map (Un defended) (1:10,000)

### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

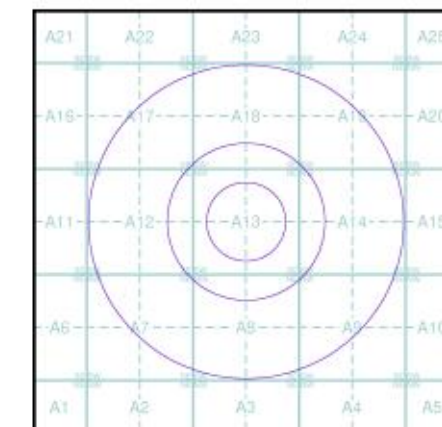
### Modelled Flood Depth

| Fluvial Depth                                                                                     | Coastal Depth                                                                                     |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  0.01m - 0.05m |  0.01m - 0.05m |
|  0.05m - 0.1m  |  0.05m - 0.1m  |
|  0.1m - 0.3m   |  0.1m - 0.3m   |
|  0.3m - 1m     |  0.3m - 1m     |
|  >1m           |  >1m           |

### Contours (height in metres)

- Standard Contour  105
- Master Contour  100
- Spot Height  167.8
-  MLW Mean Low Water
-  MHW Mean High Water

## JBA 100 Year Return Flood Map (Un defended) - Slice A



### Order Details

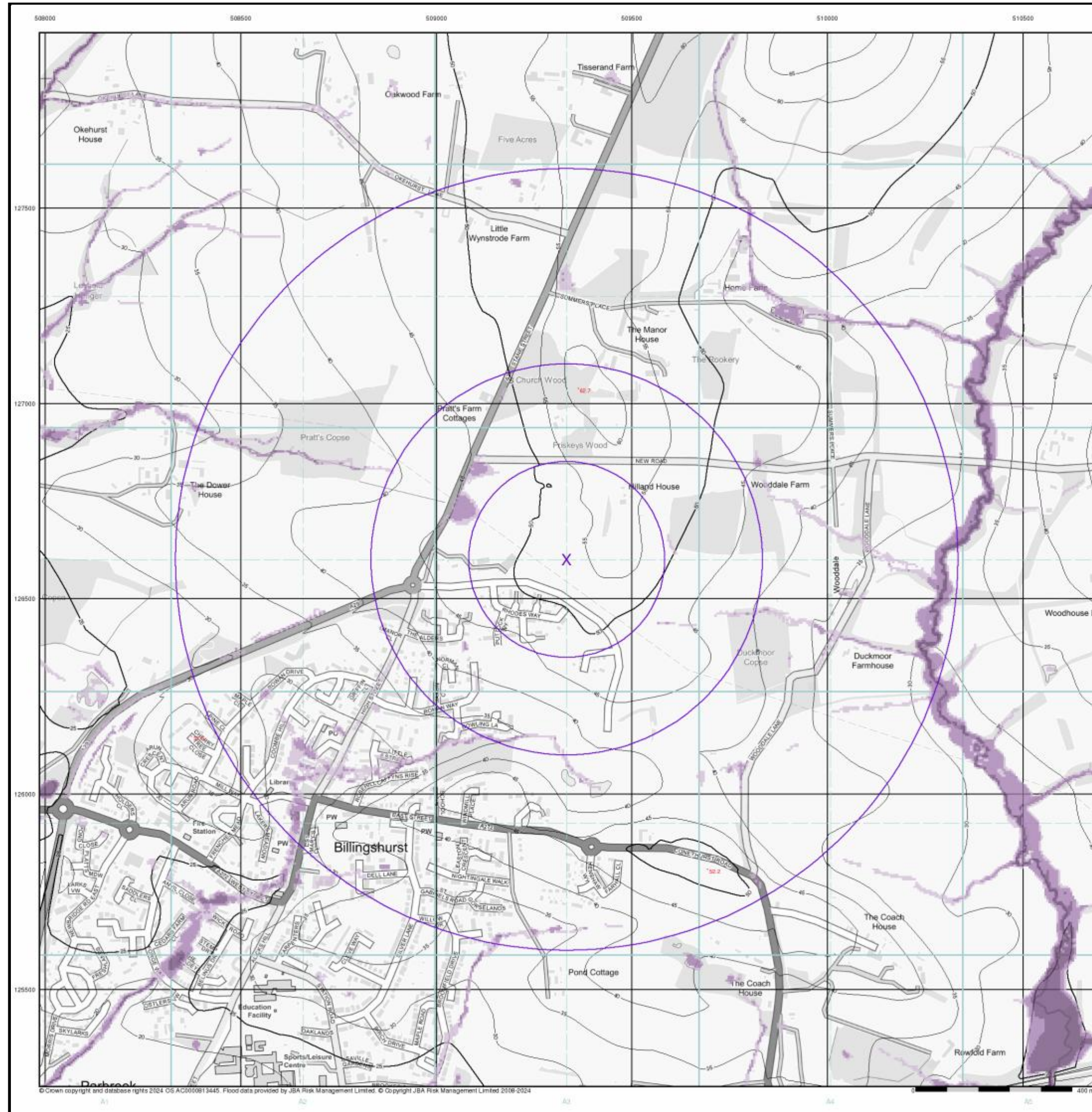
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

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INFORMATION GROUP

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# 

## JBA 200 Year Return Flood Map (Undefended) (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

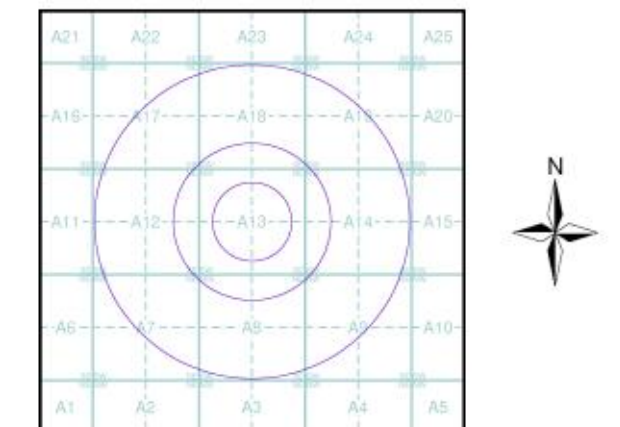
### Modelled Flood Depth

| Pluvial Depth | Fluvial Depth | Coastal Depth |
|---------------|---------------|---------------|
| 0.1m          | 0.01m - 0.05m | 0.01m - 0.05m |
| 0.1m - 0.3m   | 0.05m - 0.1m  | 0.05m - 0.1m  |
| 0.3m - 1m     | 0.1m - 0.3m   | 0.1m - 0.3m   |
| >1m           | 0.3m - 1m     | 0.3m - 1m     |
|               | >1m           | >1m           |

### Contours (height in metres)

- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
- MHW Mean High Water

## JBA 200 Year Return Flood Map (Undefended) - Slice A



### Order Details

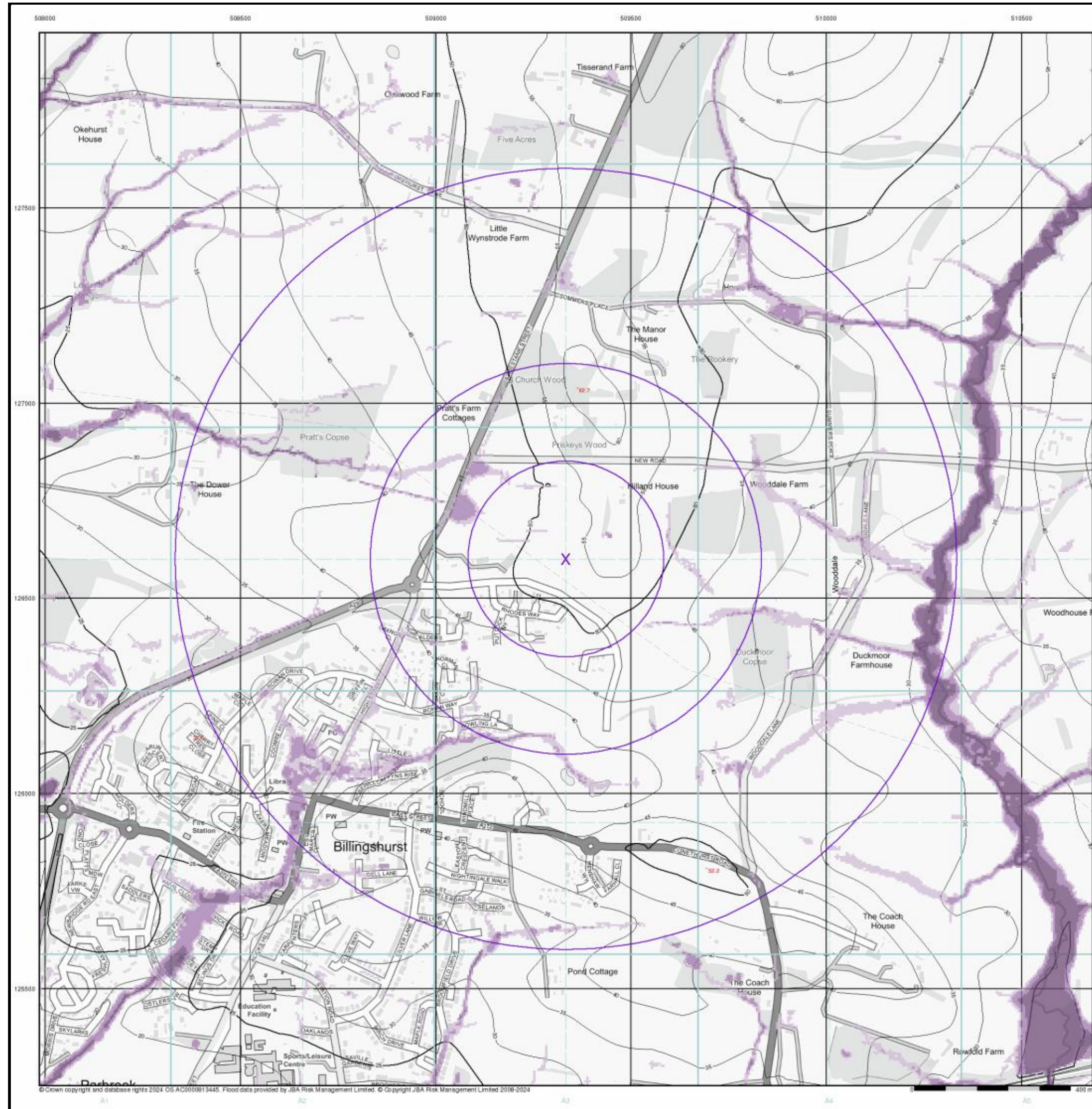
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

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INFORMATION GROUP

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# motion

## JBA 1000 Year Return Flood Map (Un defended) (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

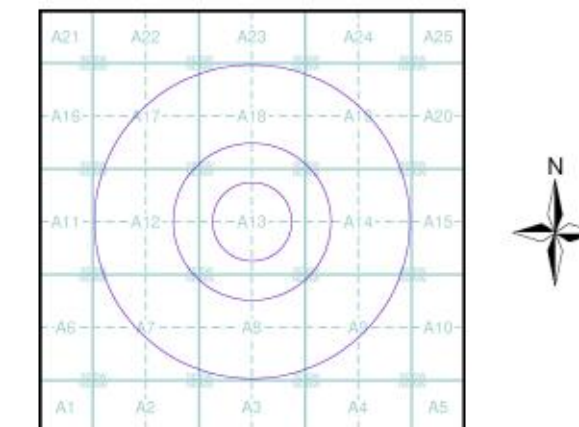
### Modelled Flood Depth

| Pluvial Depth | Fluvial Depth | Coastal Depth |
|---------------|---------------|---------------|
| 0.1m          | 0.01m - 0.05m | 0.01m - 0.05m |
| 0.1m - 0.3m   | 0.05m - 0.1m  | 0.05m - 0.1m  |
| 0.3m - 1m     | 0.1m - 0.3m   | 0.1m - 0.3m   |
| >1m           | 0.3m - 1m     | 0.3m - 1m     |
|               | >1m           | >1m           |

### Contours (height in metres)

- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
- MHW Mean High Water

## JBA 1000 Year Return Flood Map (Un defended) - Slice A



### Order Details

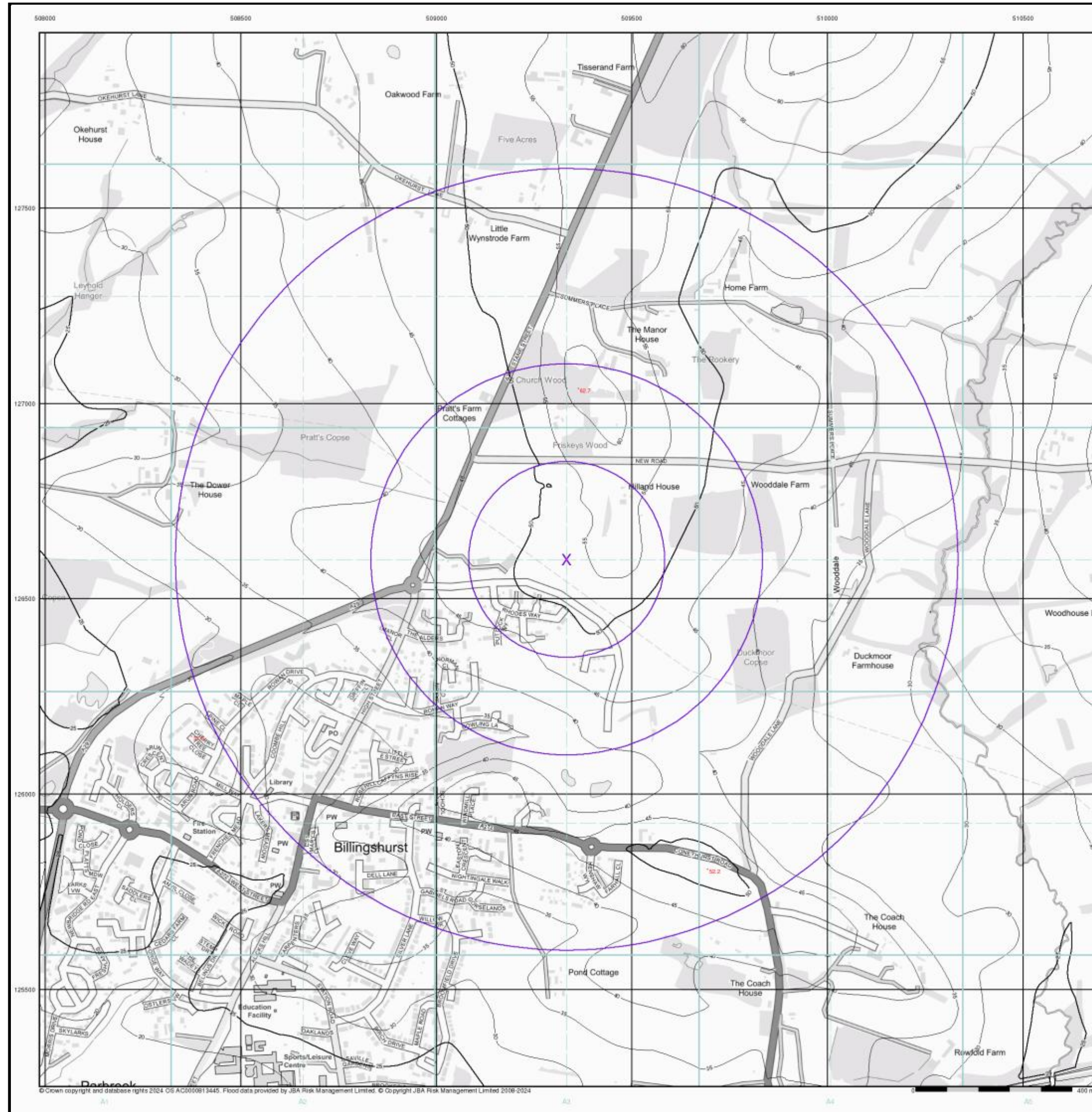
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

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# motion

## JBA Canal Failure Map (1:10,000)

### General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

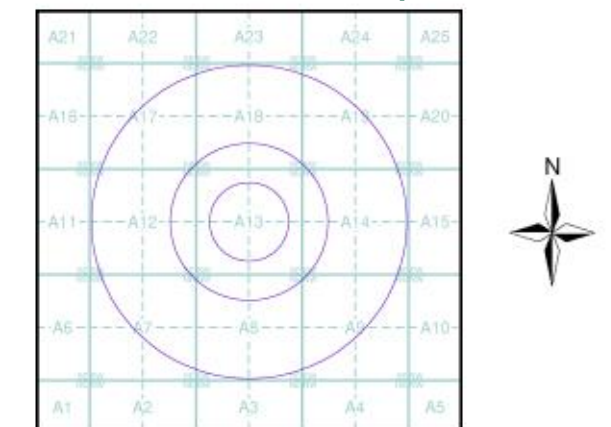
### Flood Data

-  Canal Failure
-  Coverage

### Contours (height in metres)

- Standard Contour  105
- Master Contour  100
- Spot Height  167.0
-  Mean Low Water
-  Mean High Water

## JBA Canal Failure Flood Map - Slice A



### Order Details

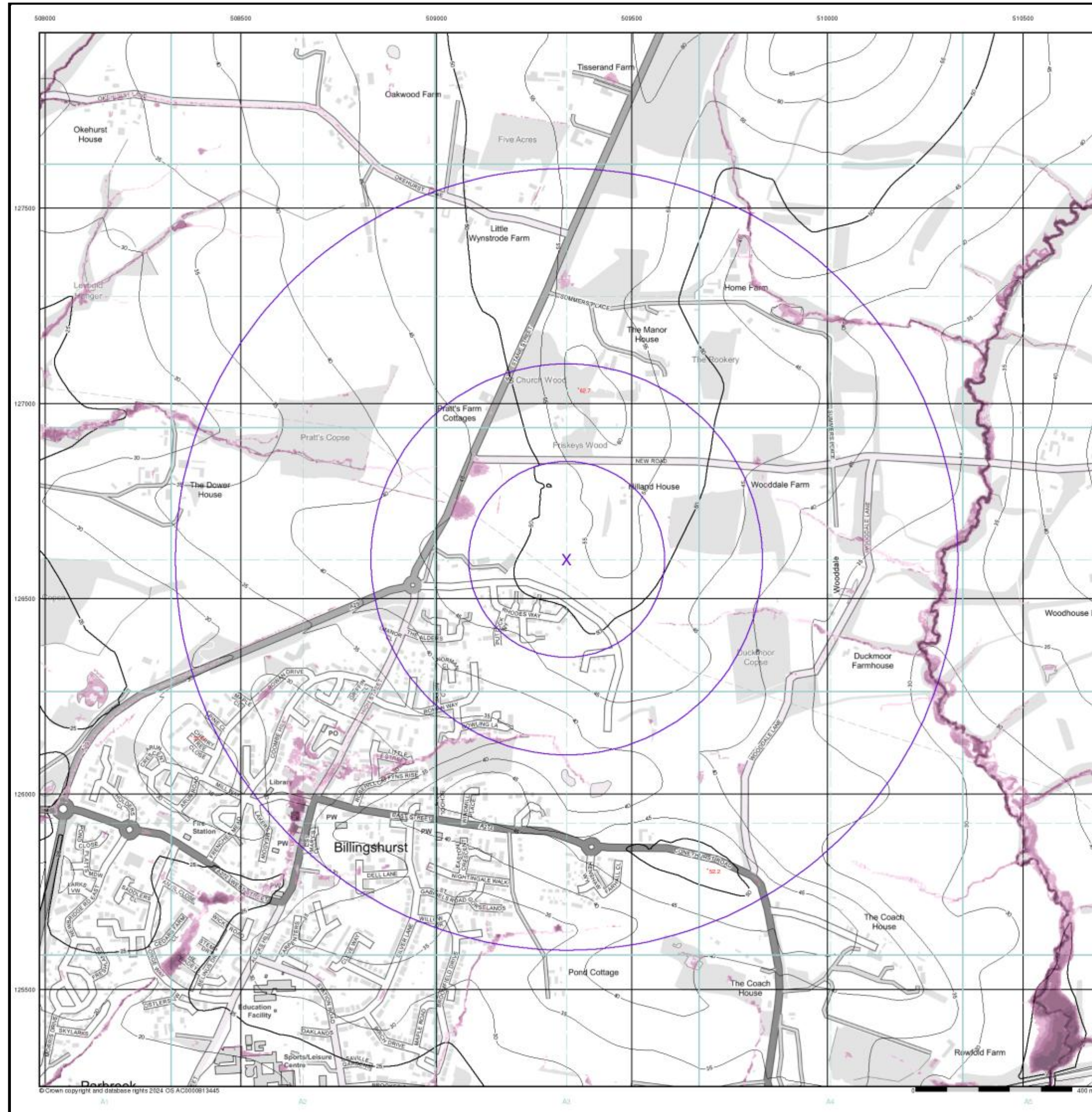
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



# motion

EA/NRW Surface Water 30 Year Return Depth  
Map (1:10,000)

## General

Specified Site Specified Buffer(s) Bearing Reference Point

## Surface Water Depth

0 - 0.15m  
0.15 - 0.30m  
0.30 - 0.60m  
0.60 - 0.90m  
0.90 - 1.20m  
> 1.20m

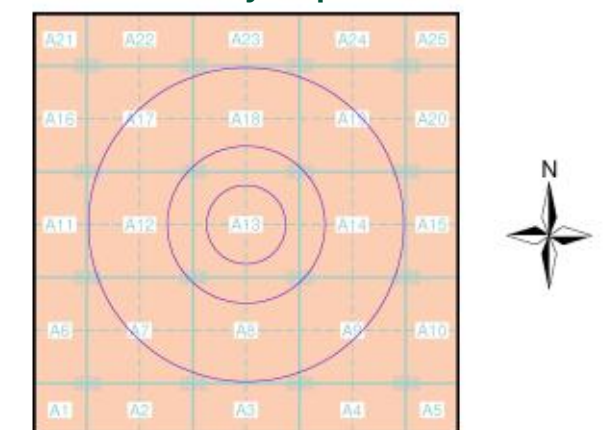
## Contours (height in metres)

Standard Contour  
Master Contour  
Spot Height  
Mean Low Water  
Mean High Water

## Suitability

See the suitability map below  
National to county  
County to town  
Town to street  
Street to parcels of land  
Property

## EA/NRW Suitability Map - Slice A



## Order Details

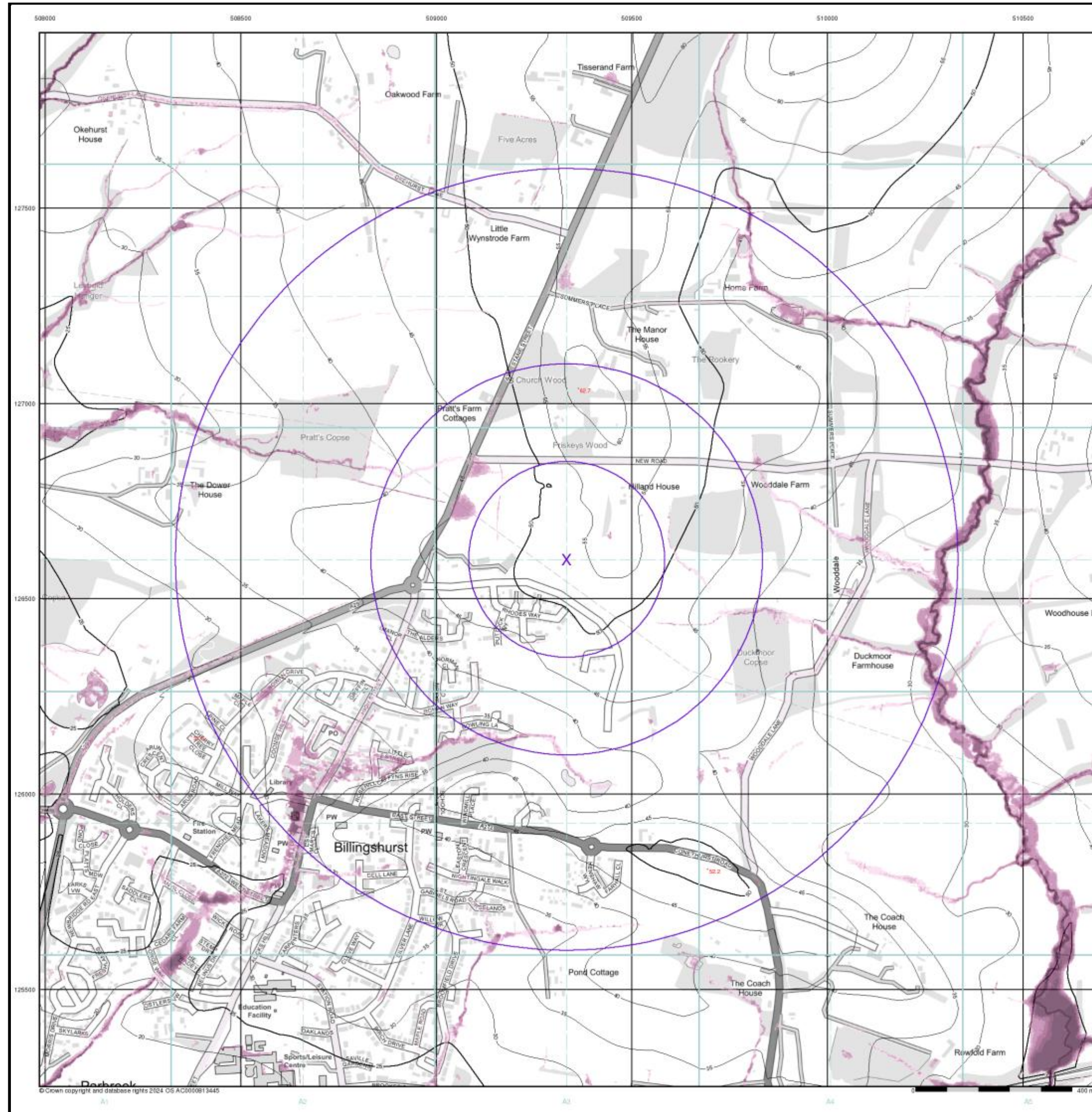
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

## Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

Landmark  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk

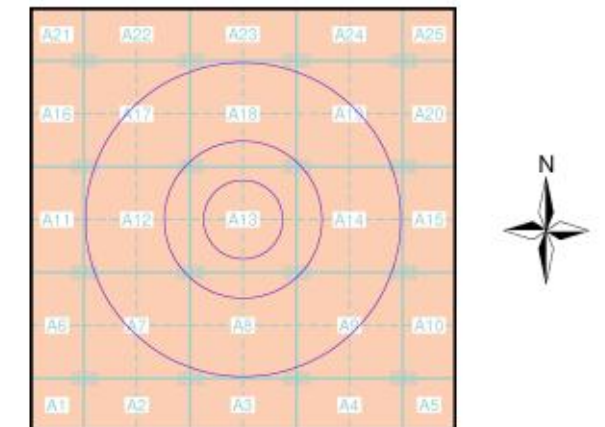


# motion

## EA/NRW Surface Water 100 Year Return Depth Map



### EA/NRW Suitability Map - Slice A



### Order Details

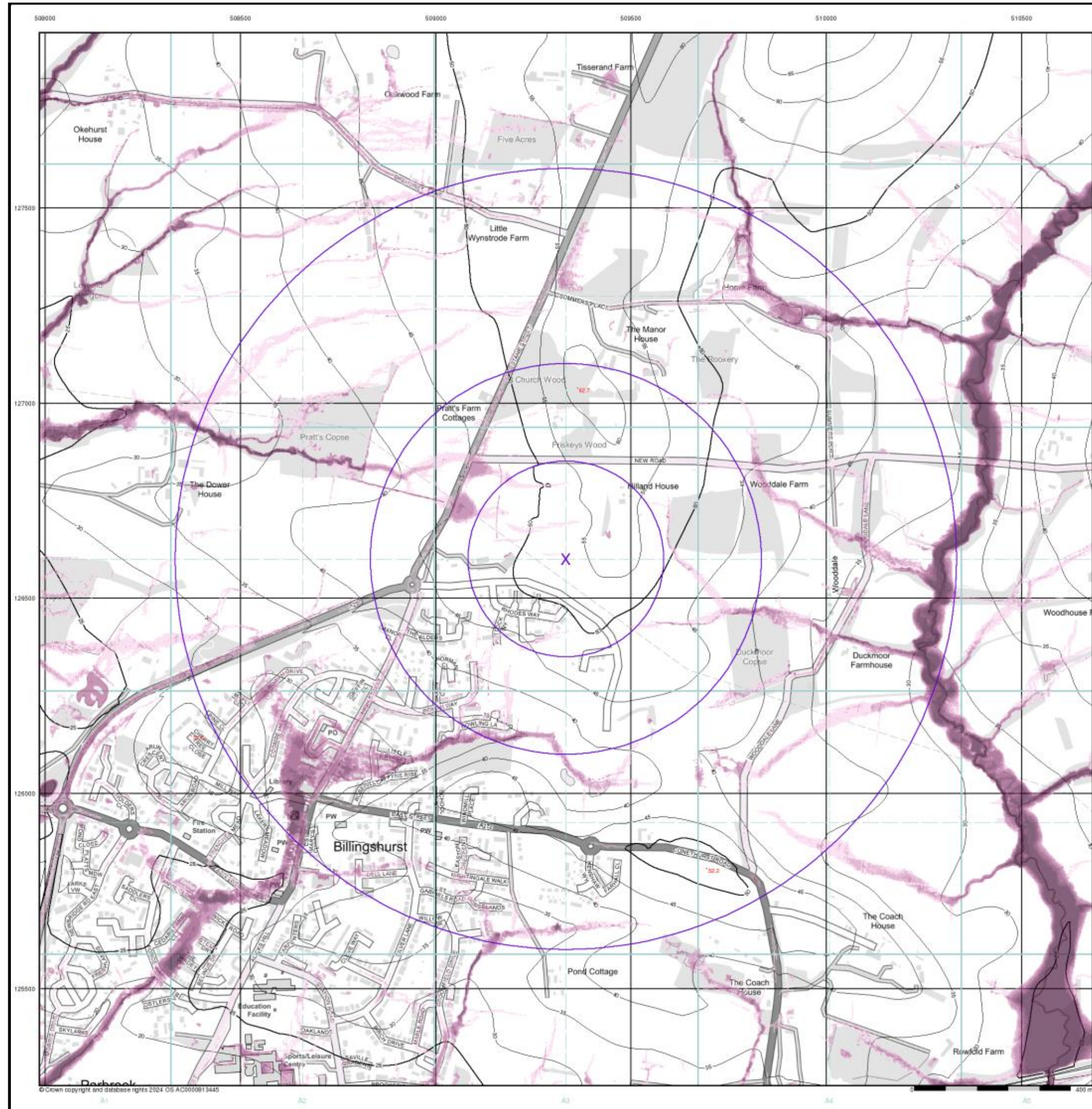
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National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



# motion

## EA/NRW Surface Water 1000 Year Return Depth Map (1:10,000)

**General**

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Surface Water Depth**

- 0 - 0.15m
- 0.15 - 0.30m
- 0.30 - 0.60m
- 0.60 - 0.90m
- 0.90 - 1.20m
- > 1.20m

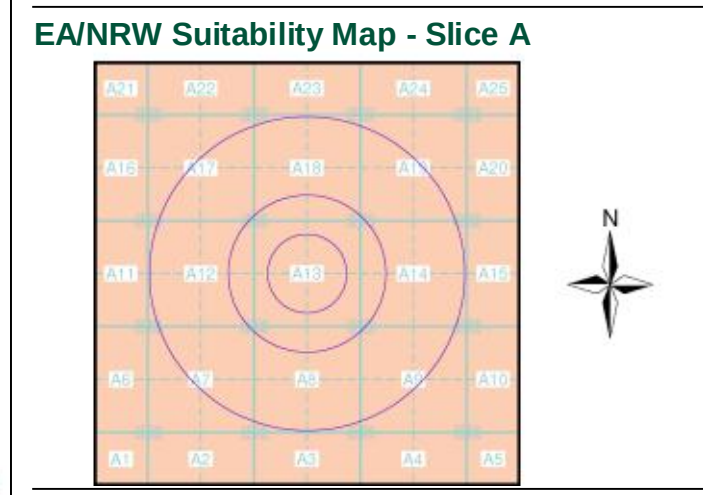
**Contours (height in metres)**

- Standard Contour:
- Master Contour:
- Spot Height:

**Suitability**

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

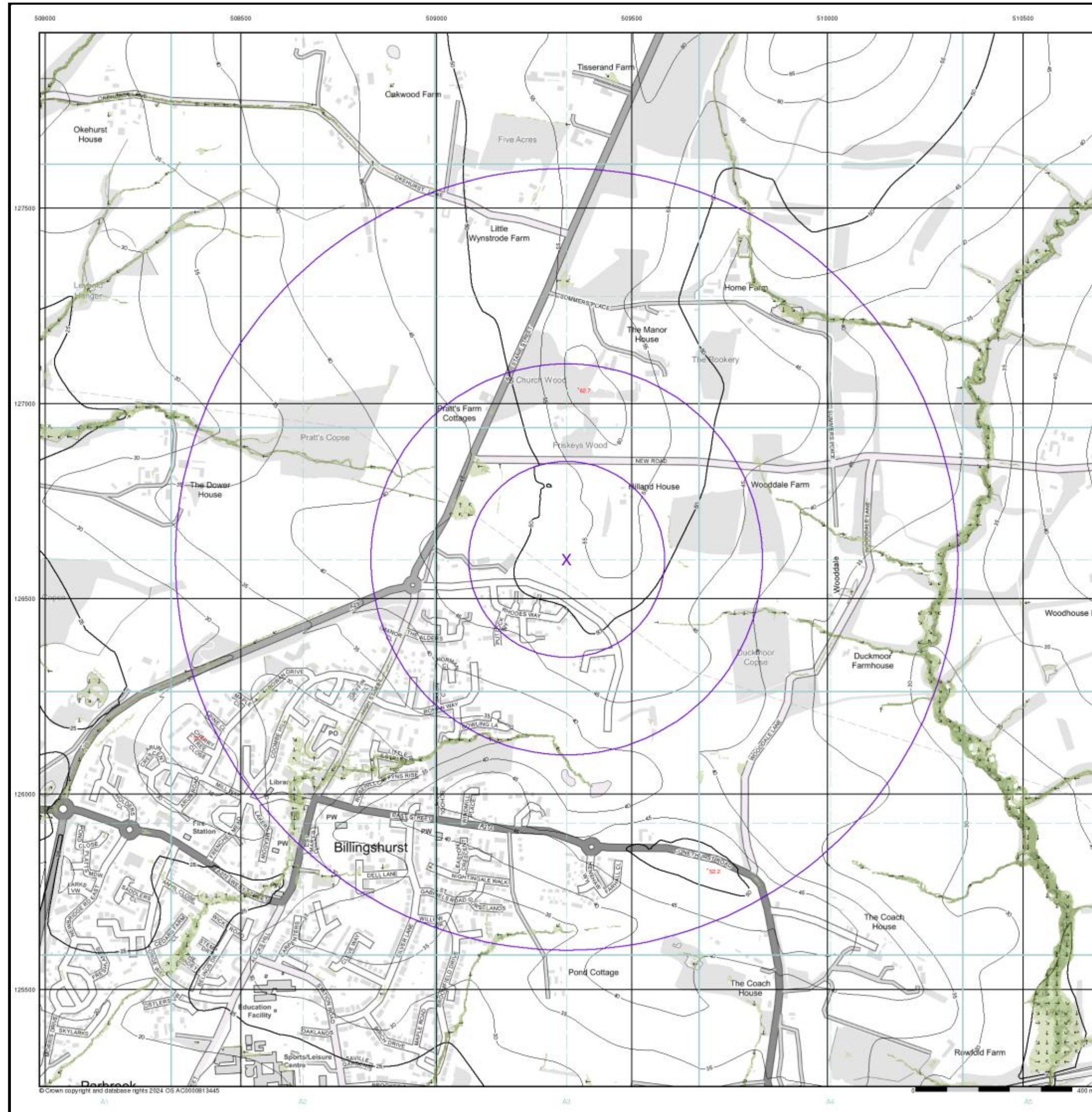


**Order Details**

Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

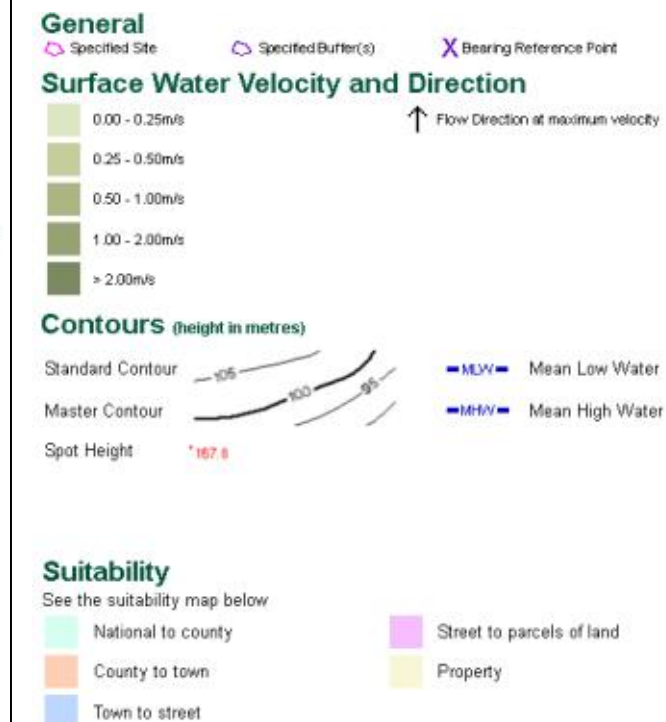
**Site Details**

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

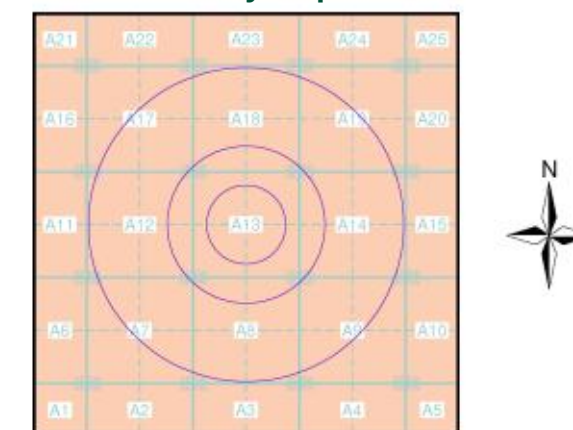


# motion

## EA/NRW Surface Water 30 Year Return Velocity and Flow Direction Map (1:10,000)



### EA/NRW Suitability Map - Slice A



### Order Details

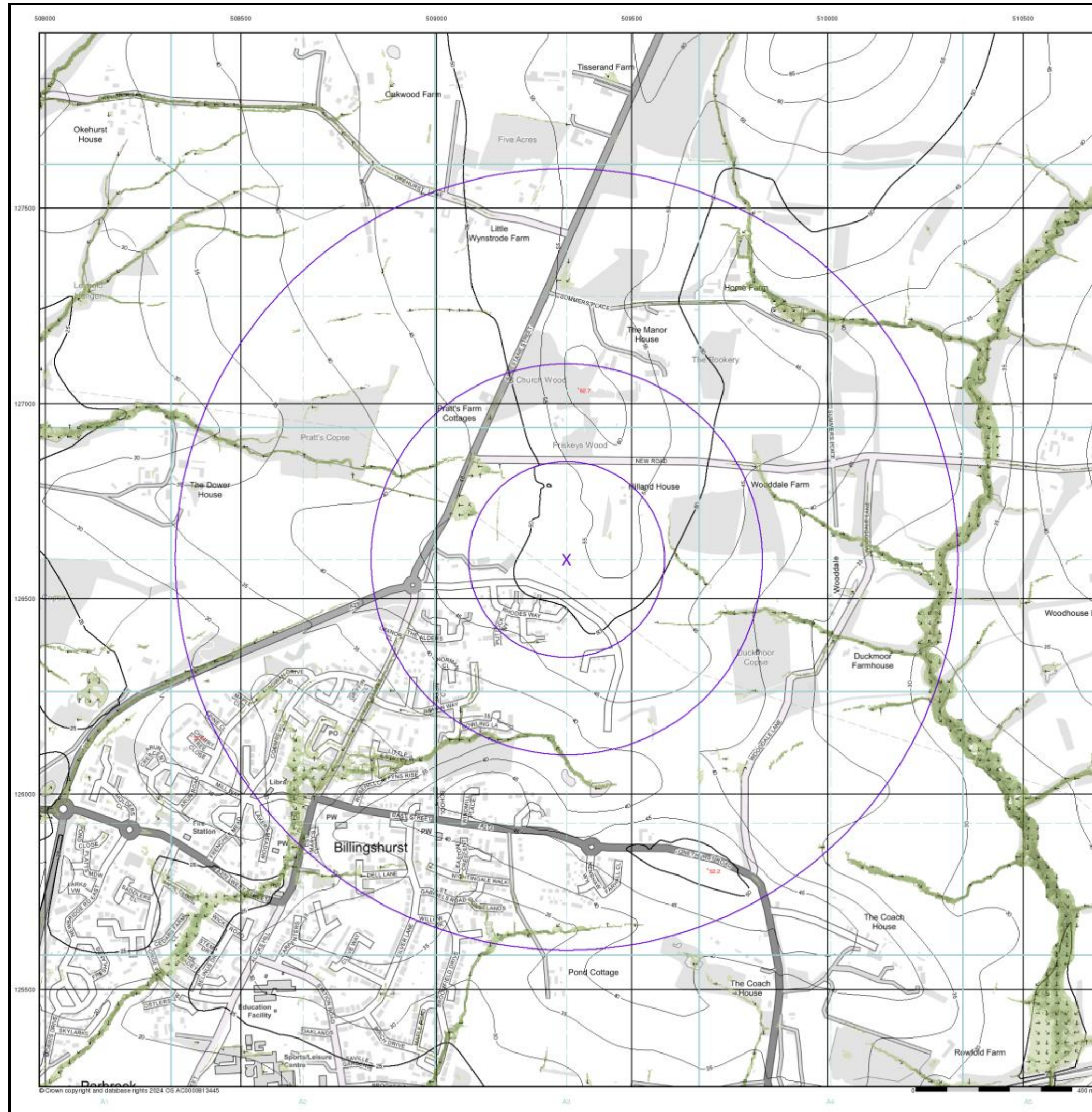
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

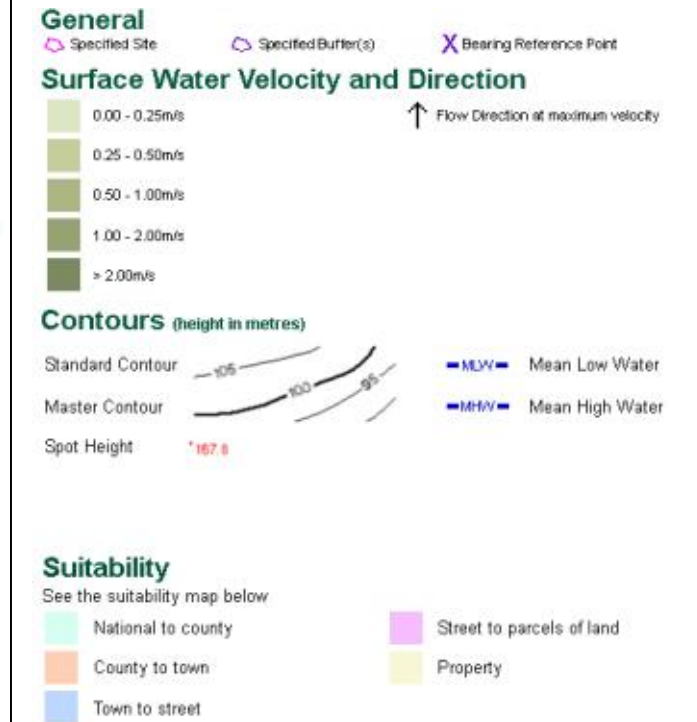
**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

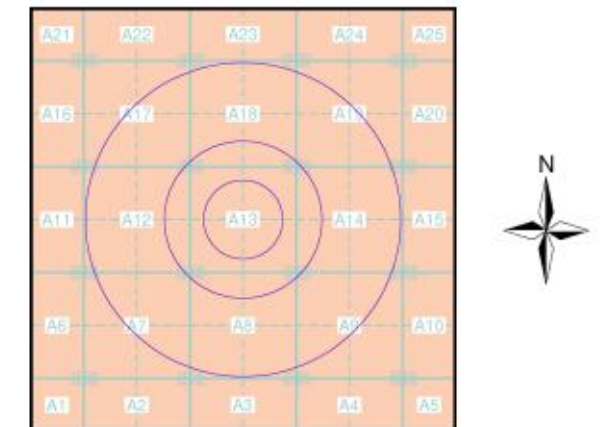


# **motion**

## EA/NRW Surface Water 100 Year Return Velocity and Flow Direction Map (1:10,000)



### EA/NRW Suitability Map - Slice A



### Order Details

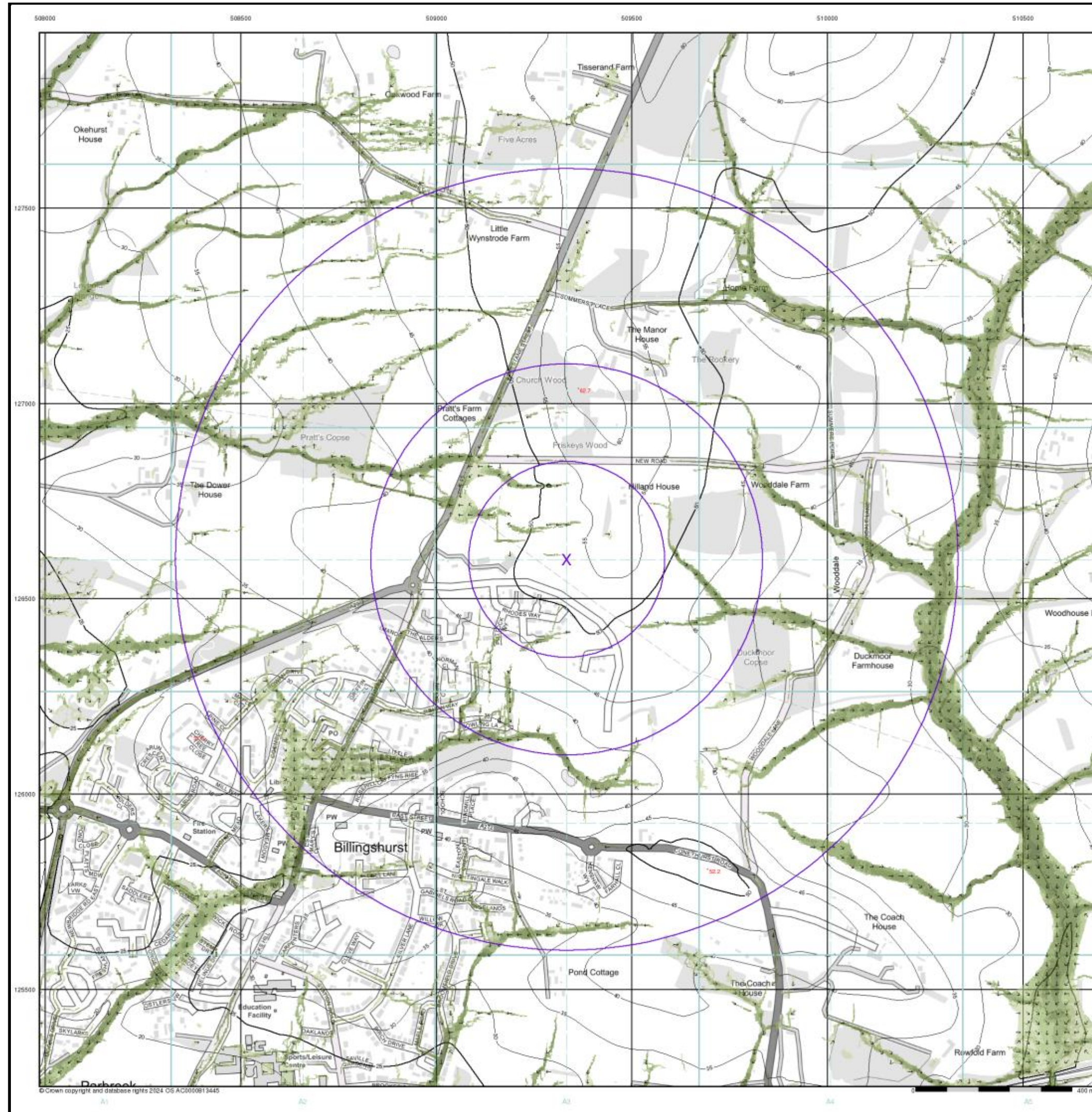
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

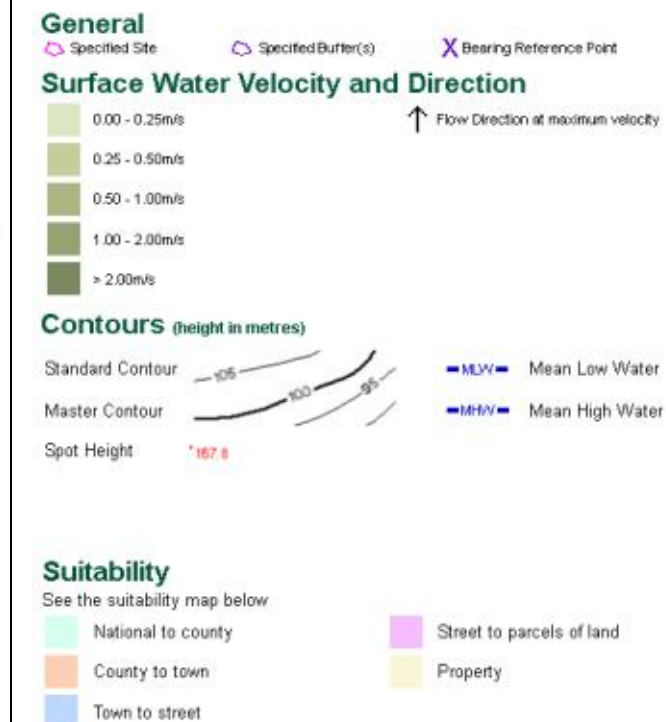
**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

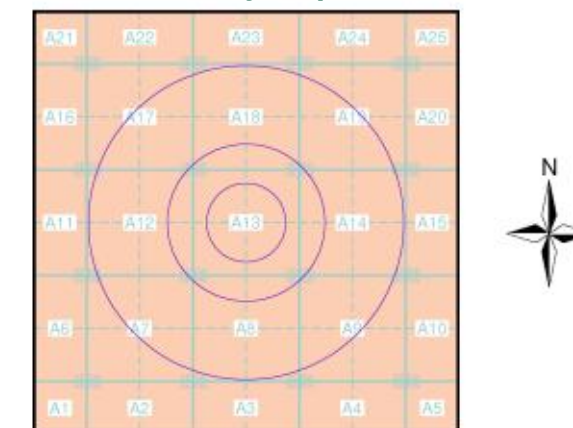


# motion

## EA/NRW Surface Water 1000 Year Return Velocity and Flow Direction Map (1:10,000)



### EA/NRW Suitability Map - Slice A



### Order Details

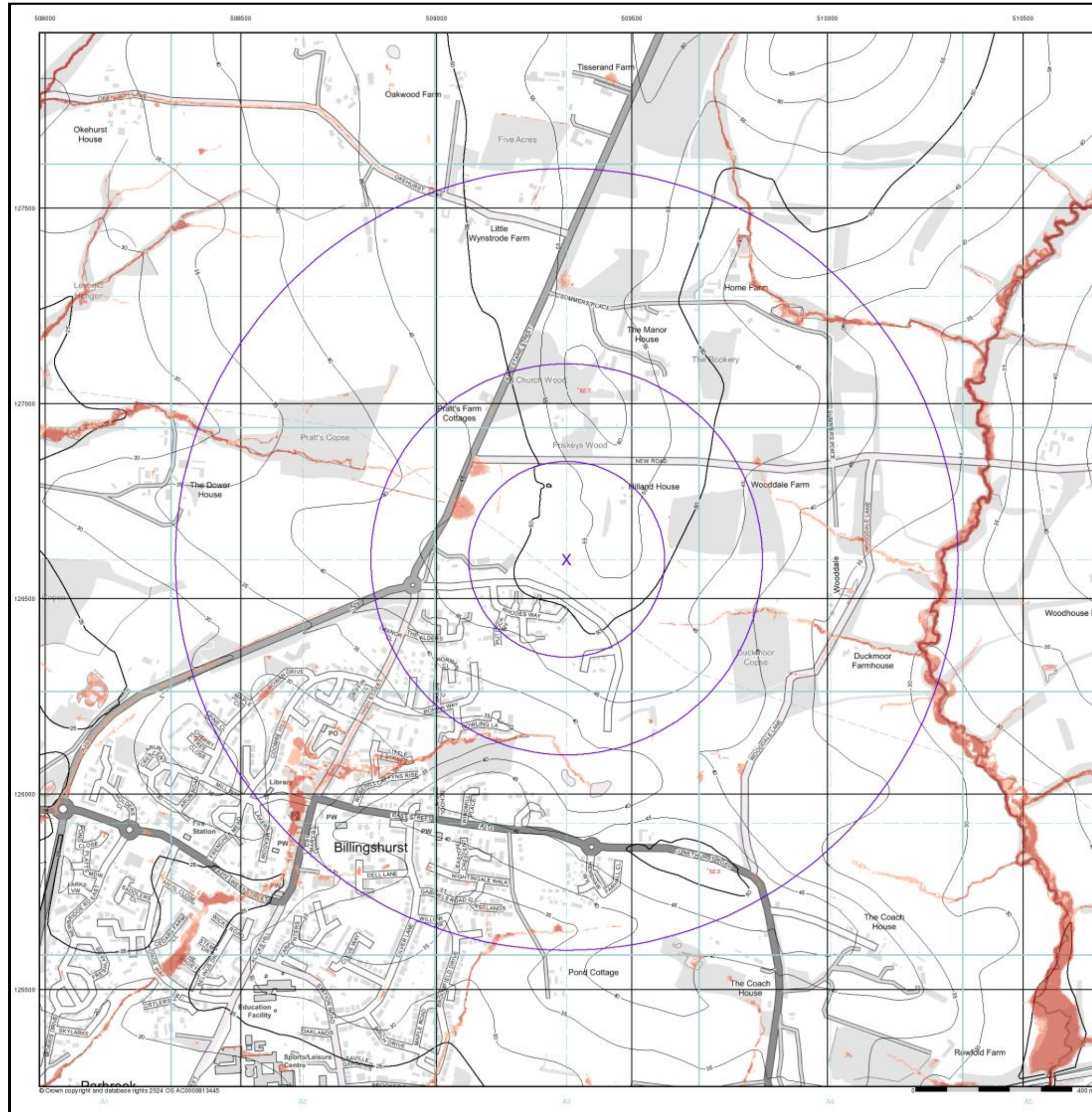
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



# **motion**

## EA/NRW Surface Water 30 Year Return Hazard Rating Map (1:10,000)

**General**

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Surface Water Hazard Rating**

- Low (0.5 – 0.75)
- Moderate (0.75 – 1.25)
- Significant (1.25 – 2.0)
- Extreme (>2.0)

**Contours (height in metres)**

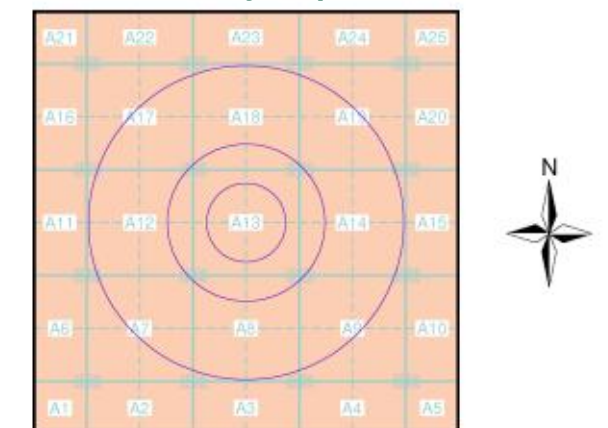
- Standard Contour
- Master Contour
- Spot Height

**Suitability**

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

### EA/NRW Suitability Map - Slice A



### Order Details

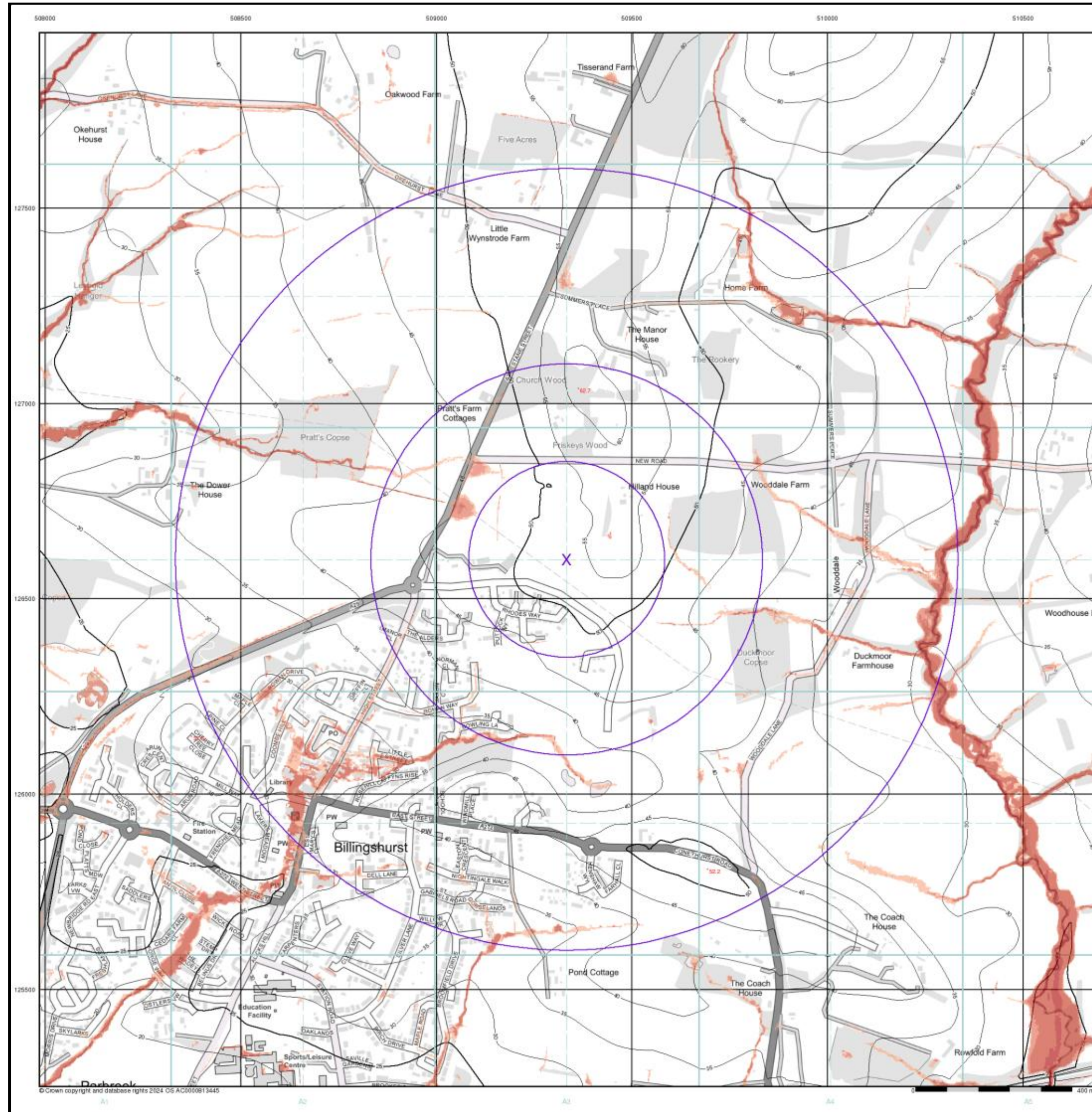
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



# **motion**

## EA/NRW Surface Water 100 Year Return Hazard Rating Map (1:10,000)

**General**

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Surface Water Hazard Rating**

- Low (0.5 – 0.75)
- Moderate (0.75 – 1.25)
- Significant (1.25 – 2.0)
- Extreme (>2.0)

**Contours (height in metres)**

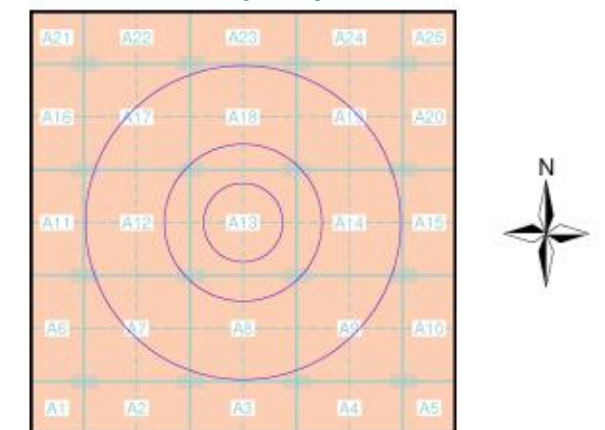
- Standard Contour
- Master Contour
- Spot Height

**Suitability**

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

### EA/NRW Suitability Map - Slice A

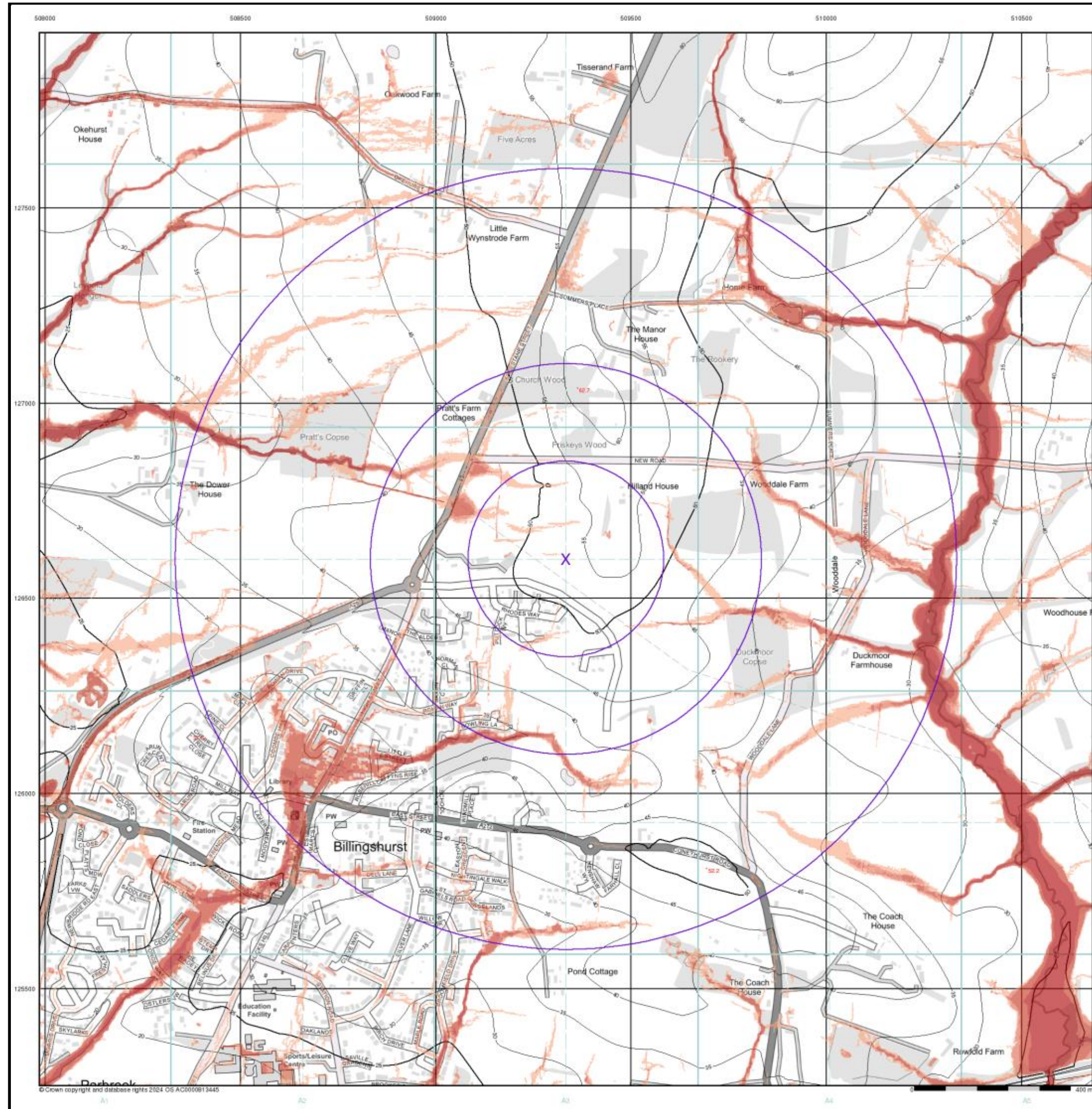


**Order Details**

Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

**Site Details**

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN



# motion

## EA/NRW Surface Water 1000 Year Return Hazard Rating Map (1:10,000)

### General

Specified Site Specified Buffer(s) Bearing Reference Point

### Surface Water Hazard Rating

Low (0.5 – 0.75)  
Moderate (0.75 – 1.25)  
Significant (1.25 – 2.0)  
Extreme (>2.0)

### Contours (height in metres)

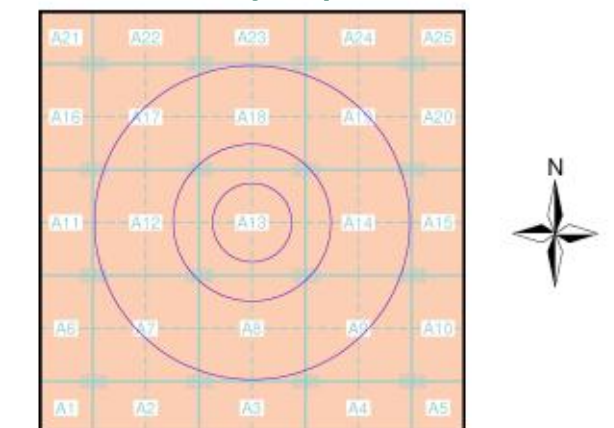
Standard Contour  
Master Contour  
Spot Height  
Mean Low Water  
Mean High Water

### Suitability

See the suitability map below

National to county  
County to town  
Town to street  
Street to parcels of land  
Property

### EA/NRW Suitability Map - Slice A



### Order Details

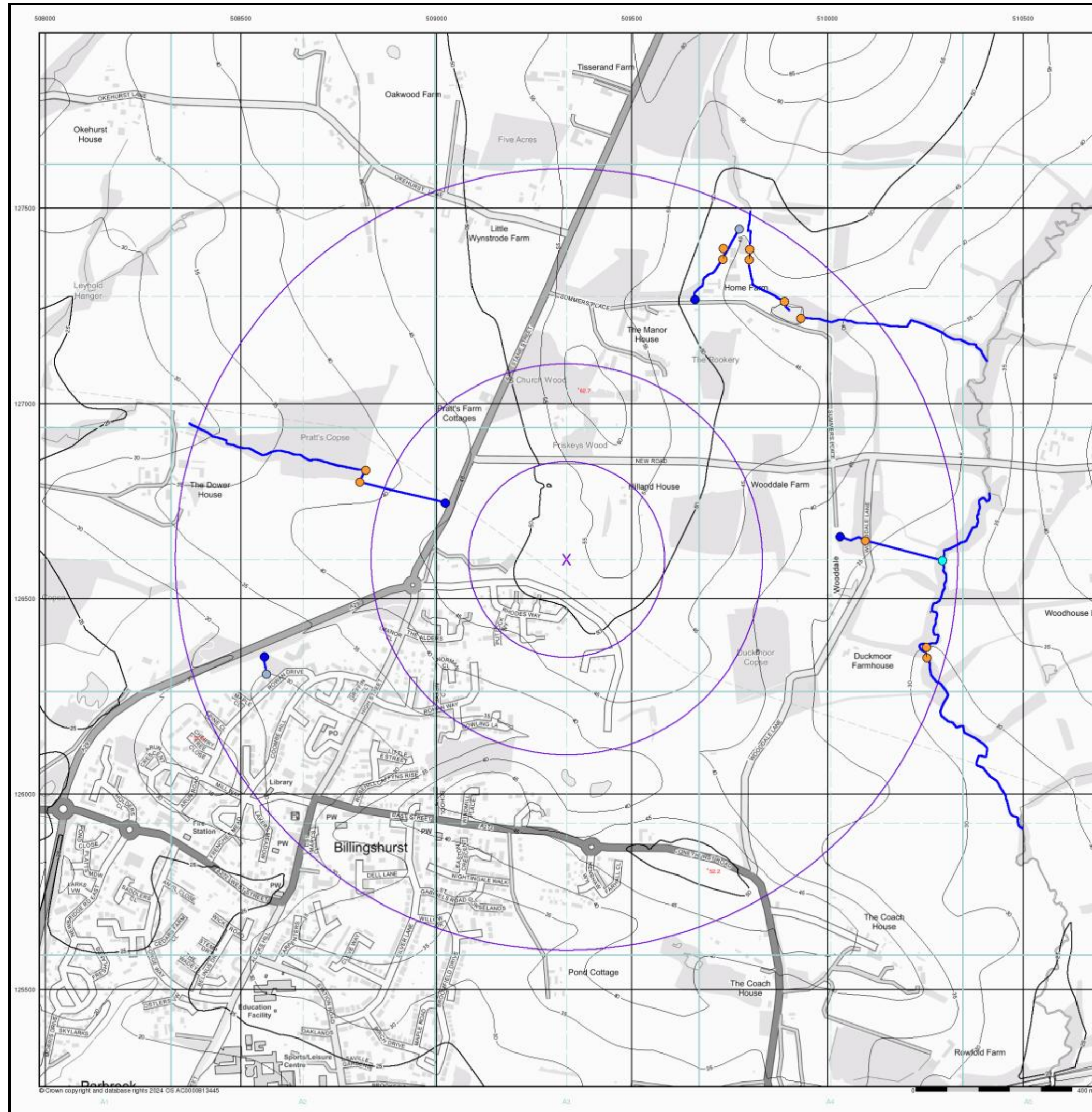
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Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

Landmark  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



# motion

## OS Water Network Lines Map (1:10,000)

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

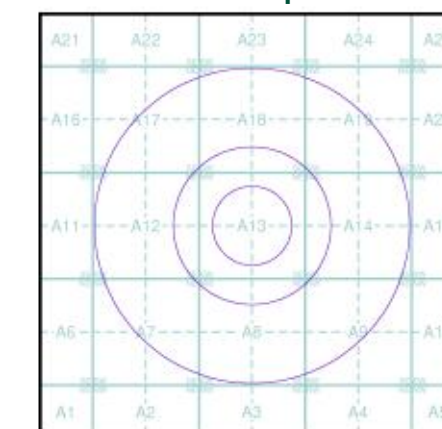
### OS Water Network Data

- |              |                         |
|--------------|-------------------------|
| Canal        | Drain                   |
| Reservoir    | Other                   |
| Foreshore    | Lake                    |
| Marsh        | Transfer                |
| Tidal River  | Lock Or Flight Of Locks |
| Inland River | Sea                     |
| Junction     | Source                  |
| Outlet       | Other                   |
| Pseudo       |                         |

### Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

### OS Water Network Map - Slice A



### Order Details

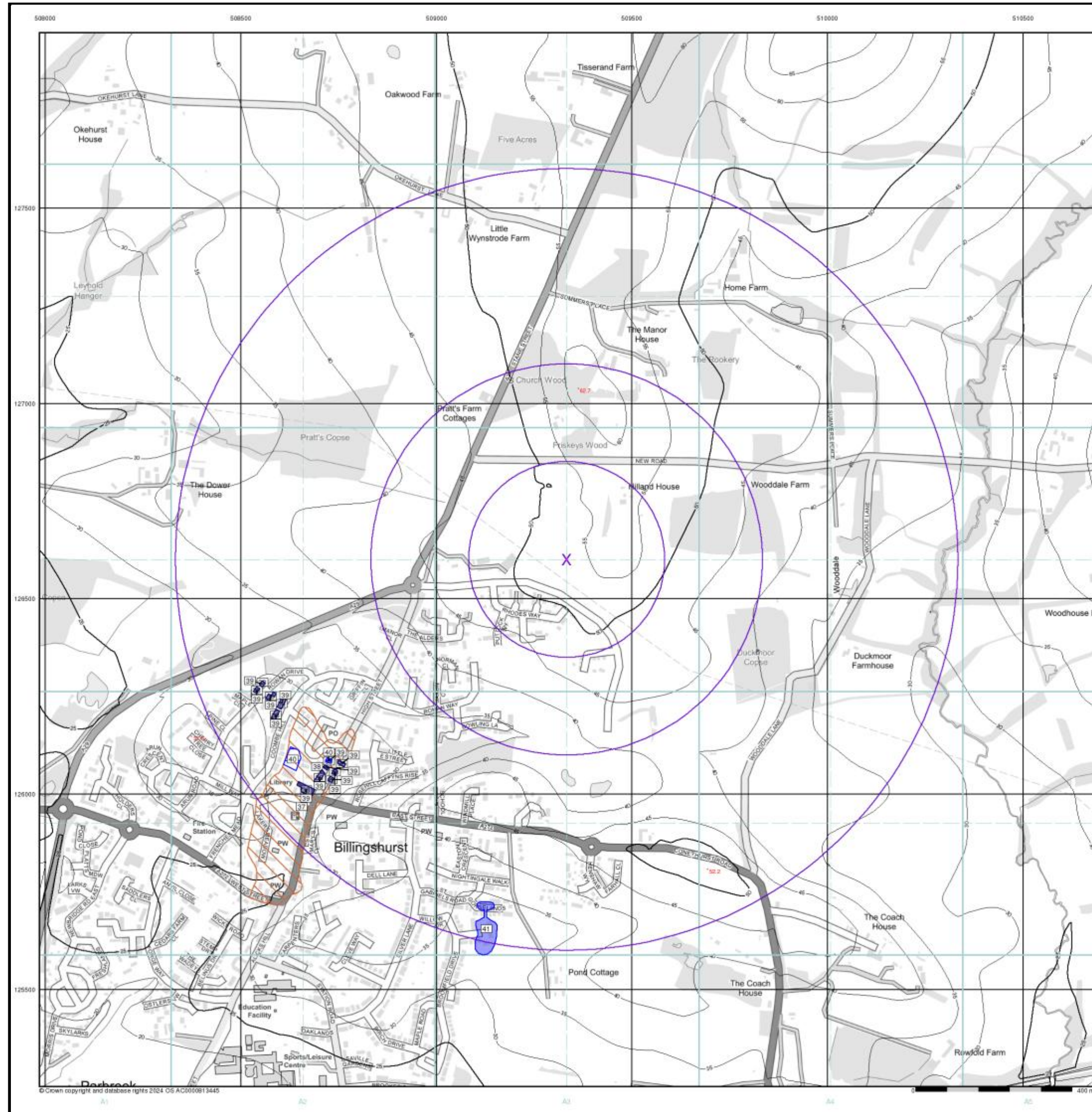
Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

### Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



# motion

EANRW Historic Flood Map (1:10,000)

## General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID

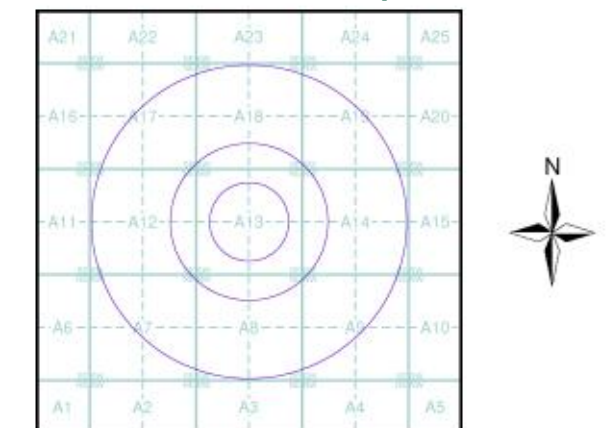
## Historic Flood Events Data

- |                                                                                                                                    |                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|  Channel Capacity Exceeded (no raised defences) |  Obstruction/Blockage - Culvert         |
|  Channel Capacity Exceeded /Surface Water       |  Obstruction/Blockage - Debris Screen   |
|  Groundwater/High Water Table                   |  Operational Failure/ Breach of Defence |
|  Local Drainage/Surface Water                   |  Other                                  |
|  Mechanical Failure                             |  Overtopping of Defences                |
|  Obstruction/Blockage - Bridge                  |  Surface Water                          |
|  Obstruction/Blockage - Channel                 |  Unknown                                |
|  Historical Flood Liabilities                   |                                                                                                                            |

## Contours (height in metres)

- Standard Contour  105  MLW Mean Low Water
- Master Contour  100  MHW Mean High Water
- Spot Height  167.8

## EANRW Historic Flood Map - Slice A



## Order Details

Order Number: 360250553\_1\_1  
Customer Ref: 1dubil 1904029  
National Grid Reference: 509330, 126600  
Slice: A  
Site Area (Ha): 0.01  
Search Buffer (m): 1000

## Site Details

2 Old Hilland, Hilland Road, BILLINGSHURST, RH14 9HN

**Landmark**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

## Appendix G

### Southern Water Asset Records



(c) Crown copyright and database rights 2021 Ordnance Survey 100031673

Date: 25/01/21

Scale: 1:1000

Map Centre: 509230.126590

Data updated: 18/01/21

Our Ref: 487518 - 1

Wastewater Plan A1

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2020 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Combined Pumping Station  
Foul Manhole  
Combined Manhole  
Foul Pumping Station  
Surface Water Pumping Station  
Water Treatment Works  
Section 154 Area  
Bulking Tank  
Agreement Area

vhldo@motion.co.uk

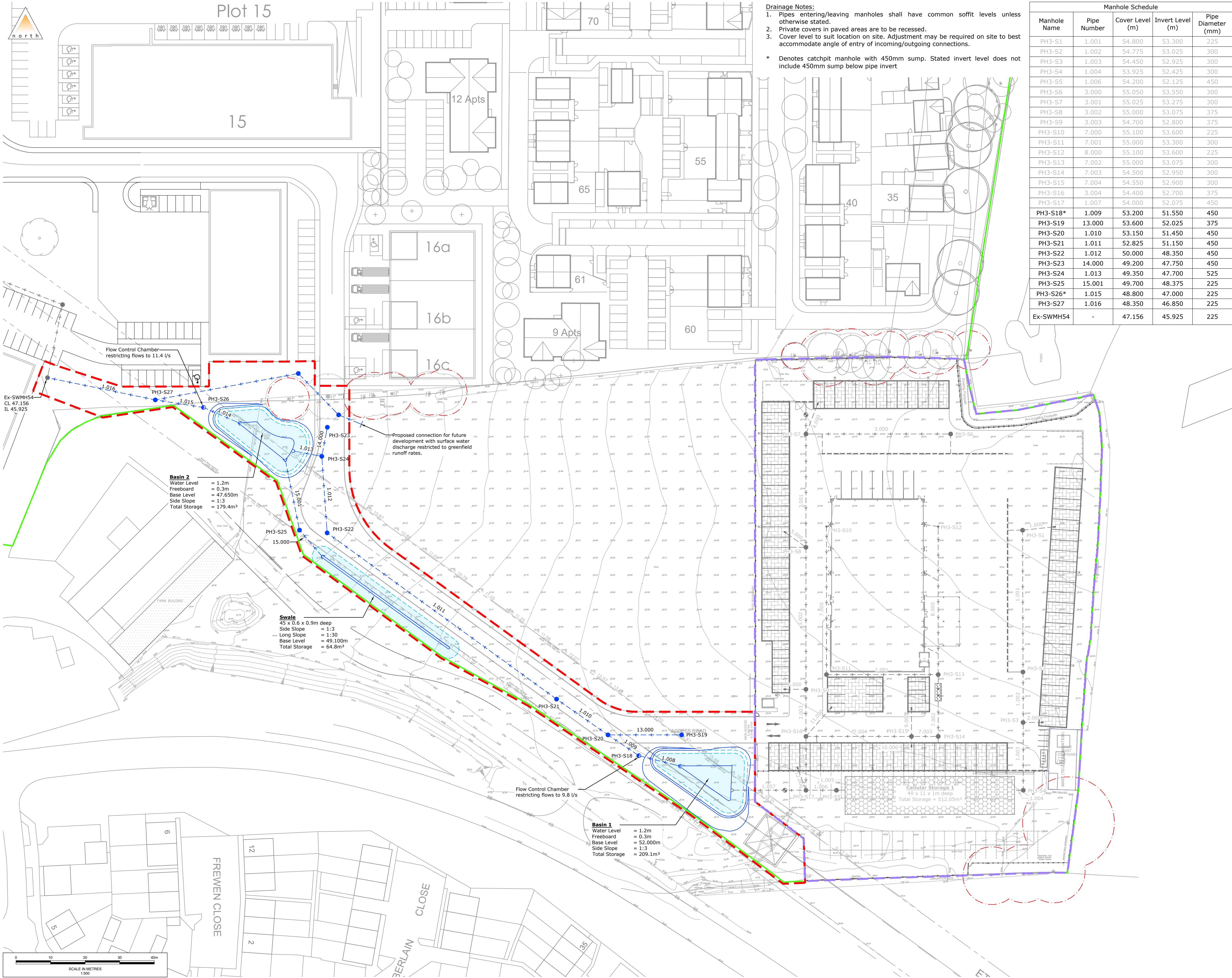
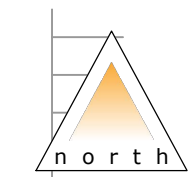
Billingshurst





## **Appendix H**

### Drainage Strategy



- Drainage Notes:**
1. Pipes entering/leaving manholes shall have common soffit levels unless otherwise stated.
  2. Private covers in paved areas are to be recessed.
  3. Cover level to suit location on site. Adjustment may be required on site to best accommodate angle of entry of incoming/outgoing connections.
- \* Denotes catchpit manhole with 450mm sump. Stated invert level does not include 450mm sump below pipe invert

| Manhole Schedule |             |                 |                  |                    |
|------------------|-------------|-----------------|------------------|--------------------|
| Manhole Name     | Pipe Number | Cover Level (m) | Invert Level (m) | Pipe Diameter (mm) |
| PH3-S1           | 1.001       | 54.800          | 53.300           | 225                |
| PH3-S2           | 1.002       | 54.775          | 53.025           | 300                |
| PH3-S3           | 1.003       | 54.450          | 52.925           | 300                |
| PH3-S4           | 1.004       | 53.925          | 52.425           | 300                |
| PH3-S5           | 1.006       | 54.200          | 52.125           | 450                |
| PH3-S6           | 3.000       | 55.050          | 53.550           | 300                |
| PH3-S7           | 3.001       | 55.025          | 53.275           | 300                |
| PH3-S8           | 3.002       | 55.000          | 53.075           | 375                |
| PH3-S9           | 3.003       | 54.700          | 52.800           | 375                |
| PH3-S10          | 7.000       | 55.100          | 53.600           | 225                |
| PH3-S11          | 7.001       | 55.000          | 53.300           | 300                |
| PH3-S12          | 8.000       | 55.100          | 53.600           | 225                |
| PH3-S13          | 7.002       | 55.000          | 53.075           | 300                |
| PH3-S14          | 7.003       | 54.500          | 52.950           | 300                |
| PH3-S15          | 7.004       | 54.550          | 52.900           | 300                |
| PH3-S16          | 3.004       | 54.400          | 52.700           | 375                |
| PH3-S17          | 1.007       | 54.000          | 52.075           | 450                |
| PH3-S18*         | 1.009       | 53.200          | 51.550           | 450                |
| PH3-S19          | 13.000      | 53.600          | 52.025           | 375                |
| PH3-S20          | 1.010       | 53.150          | 51.450           | 450                |
| PH3-S21          | 1.011       | 52.825          | 51.150           | 450                |
| PH3-S22          | 1.012       | 50.000          | 48.350           | 450                |
| PH3-S23          | 14.000      | 49.200          | 47.750           | 450                |
| PH3-S24          | 1.013       | 49.350          | 47.700           | 525                |
| PH3-S25          | 15.001      | 49.700          | 48.375           | 225                |
| PH3-S26*         | 1.015       | 48.800          | 47.000           | 225                |
| PH3-S27          | 1.016       | 48.350          | 46.850           | 225                |
| Ex-SWMH54        | -           | 47.156          | 45.925           | 225                |

- Notes**
1. All levels and dimensions are to be checked on site before any work commences. All dimensions are in metres unless stated otherwise.
  2. This drawing has been based upon survey information supplied by Marvin & Partners Ltd and Motion cannot guarantee the accuracy of the data provided.
  3. Any discrepancies should be reported to the architect and/or engineer immediately, so that clarification can be sought prior to the commencement of works.
  4. This drawing should be read in conjunction with all other relevant architect and engineering details, drawings and specification.
  5. Land ownership boundary has been taken from Ian C King Associates drawing U1-SLP-01-D.
  6. All works to adopted system are to be carried out in accordance with Water UK - Design and Construction Guidance and Thames Water Local practice.
  7. All private rainwater pipes and internal foul soil pipes are to be set out in accordance with the architect layout.
  8. Pipes and channels constructed within private drainage to be either:
    - Concrete to BS EN 1916 & BS 5911
    - Extra Strength Vitrified Clay to BS EN 295
    - Unplasticised PVC to BS EN 1401 (Not to be used in adoptable drainage and beneath basement slab)
    - Ductile Iron to BS EN 598. Ductile Iron to BS EN 598. For use within pile caps and ground beams. Ductile iron pipes to have a cement mortar lining.
  8. All private drainage is to be 100mmØ laid at a minimum gradient of 1 in 80, or 1 in 40 where no toilets are connected, for foul drains and 1 in 100 for surface water, unless otherwise stated.
  9. 350mm minimum cover is to be provided for pipes laid in soft/paved areas, and 900mm minimum cover is to be provided for pipes laid beneath roads/driveways unless not practical. This is based on a uPVC system for private surface water and foul drainage.
  10. All pipes shall be laid soffit to soffit with outgoing pipes unless otherwise stated.
  11. All private drainage to be in accordance with the Building Regulations Approved Document 'H' (2010 edition). It is the contractors responsibility to ensure compliance with these regulations.
  12. Shallow private drainage may require protection using concrete surround or paving slabs bridging the trench, subject to NHC Inspector's requirements. In areas where 450mm cover to private sewer is not achievable, protective measures should be undertaken as above.

- Legend**
- Land Ownership Boundary
  - Phase 3 Boundary (Access Road)
  - Phase 3 Boundary (EVM Site) Under Separate Planning Application
  - Existing Surface Water Gravity Pipe
  - New Surface Water Gravity Pipe
  - New Surface Water Manhole
  - New Surface Water Flow Control Manhole
  - New Surface Water Headwall
  - New SW Pond/Basin/Swale
  - Tree Root Protection Area

|      |             |     |     |     |      |
|------|-------------|-----|-----|-----|------|
| P01  | First Issue | AU  | SG  | NJ  | NY1  |
| Rev. | Description | Drm | Chk | App | Date |

Drawing Status: **FOR PLANNING**  
NOT FOR CONSTRUCTION

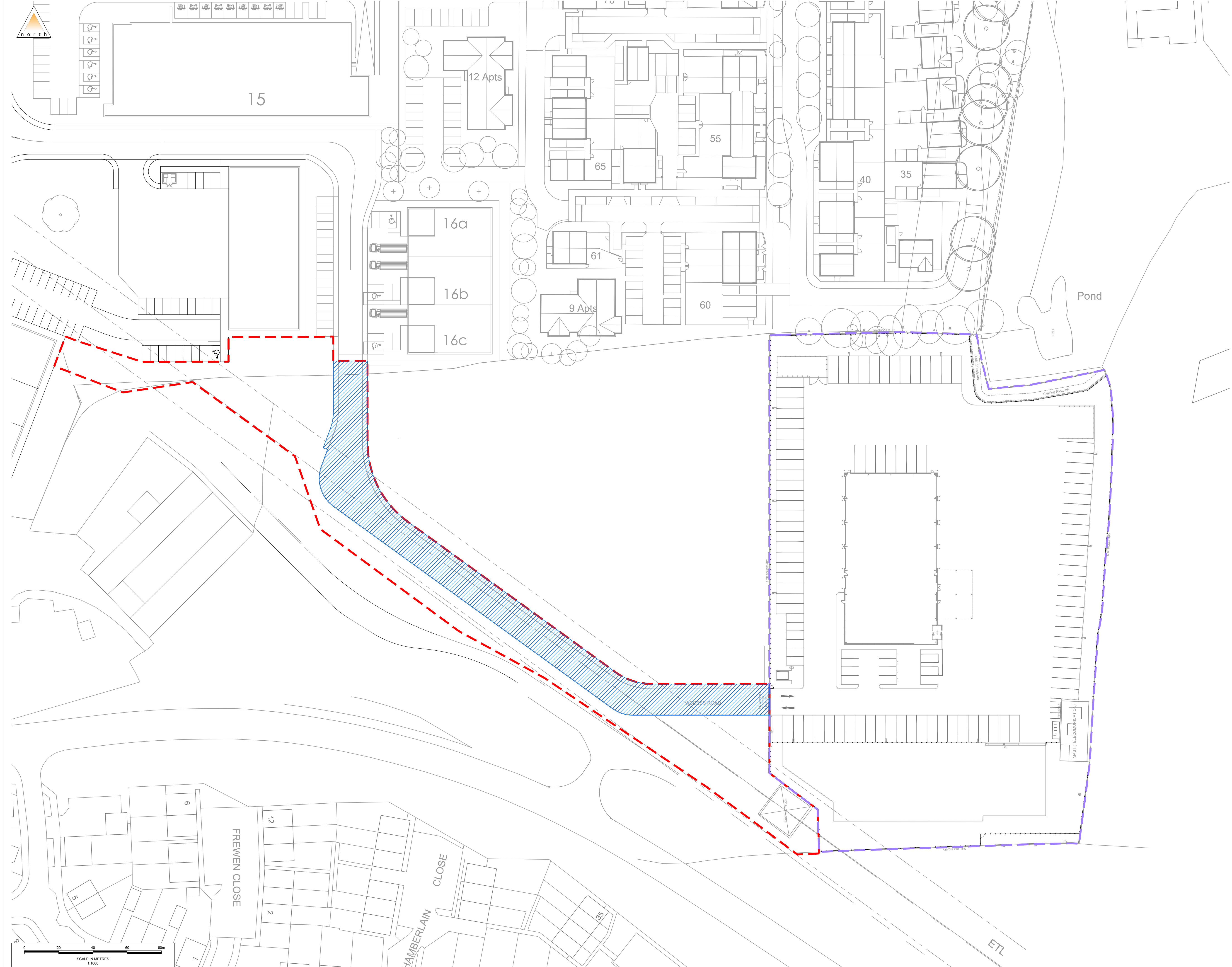


Project: Trade Park Billingshurst  
Stane Street, Billingshurst  
Title: Phase 3 Works - Access Road  
Outline Drainage Strategy

Scale: 1:500 (@ A1)  
Drawing: 1904029-P3-0506  
Revision: P01

## **Appendix I**

### Impermeable Area Plan



- Legend**
- Phase 3 Boundary (Access Road)
  - Phase 3 Boundary (EVM Site) Under Separate Planning Application
  - Impermeable Areas - Roads/Paving  
Total Area - 1900m<sup>2</sup> [0.19 ha]

|      |             |     |     |     |            |
|------|-------------|-----|-----|-----|------------|
| P01  | First Issue | AU  | AU  | N3  | 02/03/2026 |
| Rev. | Description | Drm | Chk | App | Date       |

Drawing Status: **FOR PLANNING**  
NOT FOR CONSTRUCTION



Project: Trade Park Billingshurst  
Stane Street, Billingshurst

Title: Phase 3 Works - Access Road  
Impermeable Areas Plan

Scale: 1:500 (@ A1)

Drawing: 1904029-P3-9010

Revision: P01

C:\Users\audin\Motion\StartSite - 1.dwg 1904029 Drawings\1904029-P3-9010-P01 [Phase 3 Access Road - Impermeable Areas].dwg

## Appendix J

### UKSuDS Greenfield Runoff Calculations

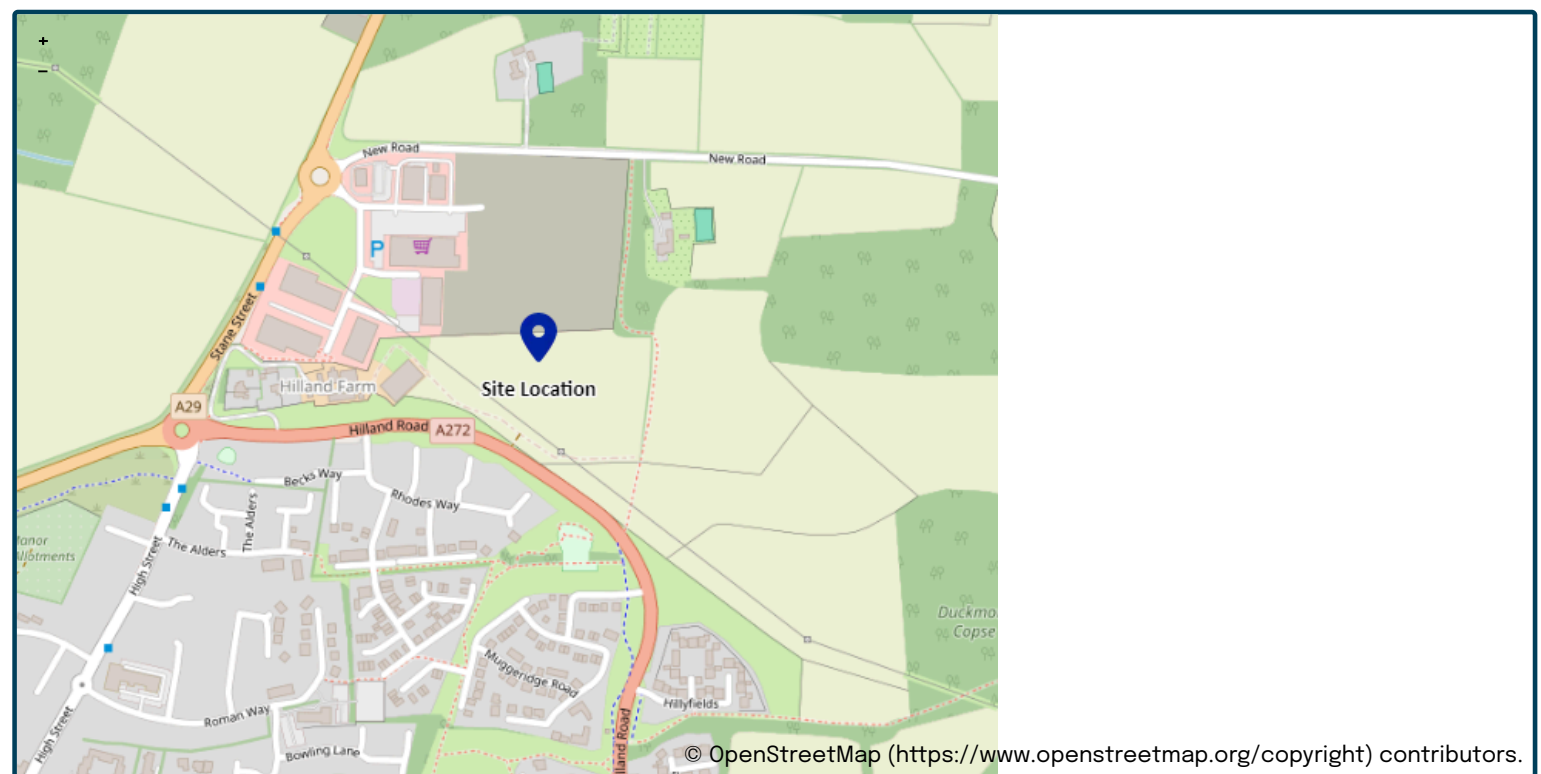
This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013), the SuDS Manual C753 (CIRIA, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

## Project details

|               |                                         |
|---------------|-----------------------------------------|
| Date          | <input type="text" value="03/03/2026"/> |
| Calculated by | <input type="text"/>                    |
| Reference     | <input type="text"/>                    |
| Model version | <input type="text" value="2.2.3"/>      |

## Location

|               |                                                    |
|---------------|----------------------------------------------------|
| Site name     | <input type="text" value="Phase 3 - Access Road"/> |
| Site location | <input type="text" value="Billingshurst"/>         |



|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Site easting (British National Grid)  | <input type="text" value="509338"/> |
| Site northing (British National Grid) | <input type="text" value="126594"/> |

## Site details

|                      |                                  |    |
|----------------------|----------------------------------|----|
| Total site area (ha) | <input type="text" value="0.5"/> | ha |
|----------------------|----------------------------------|----|

# Greenfield runoff

## Method

|        |                        |
|--------|------------------------|
| Method | FEH statistical (2025) |
|--------|------------------------|

## FEH statistical (2025)

|                                   | <u>My value</u>                    | <u>Map value</u>                   |
|-----------------------------------|------------------------------------|------------------------------------|
| SAAR9120 (mm)                     | <input type="text" value="824"/>   | <input type="text" value="mm"/>    |
| BFIHOST19scaled                   | <input type="text" value="0.262"/> | <input type="text"/>               |
| QMed-QBar conversion              | <input type="text" value="1.136"/> | <input type="text" value="1.136"/> |
| QMed (l/s)                        | <input type="text" value="3.7"/>   | <input type="text" value="l/s"/>   |
| QBar (FEH statistical 2025) (l/s) | <input type="text" value="4.2"/>   | <input type="text" value="l/s"/>   |

## Growth curve factors

|                        | <u>My value</u>                   | <u>Map value</u>               |
|------------------------|-----------------------------------|--------------------------------|
| Hydrological region    | <input type="text" value="7"/>    | <input type="text" value="7"/> |
| 1 year growth factor   | <input type="text" value="0.85"/> |                                |
| 2 year growth factor   | <input type="text" value="0.88"/> |                                |
| 10 year growth factor  | <input type="text" value="1.62"/> |                                |
| 30 year growth factor  | <input type="text" value="2.3"/>  |                                |
| 100 year growth factor | <input type="text" value="3.19"/> |                                |
| 200 year growth factor | <input type="text" value="3.74"/> |                                |

## Results

|                           |                                   |
|---------------------------|-----------------------------------|
| Method                    | FEH statistical (2025)            |
| Flow rate 1 year (l/s)    | <input type="text" value="3.6"/>  |
| Flow rate 2 year (l/s)    | <input type="text" value="3.7"/>  |
| Flow rate 10 years (l/s)  | <input type="text" value="6.8"/>  |
| Flow rate 30 years (l/s)  | <input type="text" value="9.6"/>  |
| Flow rate 100 years (l/s) | <input type="text" value="13.3"/> |
| Flow rate 200 years (l/s) | <input type="text" value="15.6"/> |

Please note runoff estimation is subject to significant uncertainty. Results are therefore normally reported to only 1 decimal place. Where 2 decimal places are provided, this does not indicate accuracy to this level, it has been adopted to prevent ‘zero’ figures from being reported. Outputs less than 0.01 l/s are reported as 0.01 l/s.

### Disclaimer

This report was produced using the Greenfield runoff rate estimation tool (2.2.3) developed by HR Wallingford and available at uksuds.com (<https://www.uksubs.com/>). The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at uksuds.com/terms-conditions (<https://www.uksubs.com/terms-conditions>). The outputs from this tool have been used to estimate Greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, Centre for Ecology and Hydrology, Wallingford Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

## **Appendix K**

### InfoDrainage Calculations

|                                                          |                                                             |             |              |
|----------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works               | Date:<br>03/07/2025                                         |             |              |
|                                                          | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



| Name      | Junction Type | Easting (m) | Northing (m) | Cover Level (m) | Depth (m) | Invert Level (m) | Chamber Shape | Diameter (m) |
|-----------|---------------|-------------|--------------|-----------------|-----------|------------------|---------------|--------------|
| PH3-S6    | Manhole       | 509418.432  | 126636.019   | 55.050          | 1.500     | 53.550           | Circular      | 1.200        |
| PH3-S7    | Manhole       | 509376.585  | 126636.019   | 55.025          | 1.750     | 53.275           | Circular      | 1.200        |
| PH3-S8    | Manhole       | 509376.585  | 126603.246   | 55.000          | 1.925     | 53.075           | Circular      | 1.350        |
| PH3-S9    | Manhole       | 509376.585  | 126562.188   | 54.700          | 1.900     | 52.800           | Circular      | 1.350        |
| PH3-S1    | Manhole       | 509439.229  | 126608.188   | 54.800          | 1.500     | 53.300           | Circular      | 1.200        |
| PH3-S3    | Manhole       | 509439.427  | 126552.602   | 54.450          | 1.525     | 52.925           | Circular      | 1.200        |
| PH3-S12   | Manhole       | 509414.840  | 126609.242   | 55.100          | 1.500     | 53.600           | Circular      | 0.450        |
| PH3-S13   | Manhole       | 509414.840  | 126566.438   | 55.000          | 1.925     | 53.075           | Circular      | 1.200        |
| PH3-S10   | Manhole       | 509382.522  | 126609.242   | 55.100          | 1.500     | 53.600           | Circular      | 0.450        |
| PH3-S11   | Manhole       | 509382.522  | 126566.438   | 55.000          | 1.700     | 53.300           | Circular      | 1.200        |
| PH3-S2    | Manhole       | 509439.362  | 126567.200   | 54.775          | 1.750     | 53.025           | Circular      | 1.200        |
| PH3-S4    | Manhole       | 509439.427  | 126532.993   | 53.925          | 1.500     | 52.425           | Circular      | 1.200        |
| PH3-S5    | Manhole       | 509385.417  | 126532.993   | 54.200          | 2.075     | 52.125           | Circular      | 1.350        |
| PH3-S16   | Manhole       | 509376.590  | 126548.569   | 54.400          | 1.700     | 52.700           | Circular      | 1.350        |
| PH3-S14   | Manhole       | 509414.840  | 126548.563   | 54.500          | 1.550     | 52.950           | Circular      | 1.200        |
| PH3-S19   | Manhole       | 509340.626  | 126549.009   | 53.600          | 1.575     | 52.025           | Circular      | 1.350        |
| PH3-S20   | Manhole       | 509319.339  | 126549.003   | 53.150          | 1.700     | 51.450           | Circular      | 1.350        |
| PH3-S18   | Manhole       | 509328.263  | 126542.993   | 53.200          | 1.650     | 51.550           | Circular      | 1.350        |
| PH3-S21   | Manhole       | 509304.460  | 126559.346   | 52.825          | 1.675     | 51.150           | Circular      | 1.350        |
| PH3-S22   | Manhole       | 509238.117  | 126607.419   | 50.000          | 1.650     | 48.350           | Circular      | 1.350        |
| PH3-S24   | Manhole       | 509236.572  | 126629.549   | 49.350          | 1.650     | 47.700           | Circular      | 1.350        |
| PH3-S26   | Manhole       | 509202.358  | 126643.678   | 48.800          | 1.800     | 47.000           | Circular      | 1.350        |
| Ex-SWMH54 | Manhole       | 509157.246  | 126652.306   | 47.156          | 1.231     | 45.925           | Circular      | 1.200        |
| PH3-S23   | Manhole       | 509238.179  | 126637.966   | 49.200          | 1.450     | 47.750           | Circular      | 1.350        |
| PH3-S15   | Manhole       | 509407.106  | 126548.563   | 54.550          | 1.650     | 52.900           | Circular      | 1.200        |
| PH3-S25   | Manhole       | 509230.126  | 126608.218   | 49.700          | 1.325     | 48.375           | Circular      | 1.200        |
| PH3-S27   | Manhole       | 509188.426  | 126645.883   | 48.350          | 1.500     | 46.850           | Circular      | 1.200        |
| PH3-17    | Manhole       | 509376.748  | 126532.969   | 54.000          | 1.925     | 52.075           | Circular      | 1.200        |

| Name      | Lock |
|-----------|------|
| PH3-S6    | None |
| PH3-S7    | None |
| PH3-S8    | None |
| PH3-S9    | None |
| PH3-S1    | None |
| PH3-S3    | None |
| PH3-S12   | None |
| PH3-S13   | None |
| PH3-S10   | None |
| PH3-S11   | None |
| PH3-S2    | None |
| PH3-S4    | None |
| PH3-S5    | None |
| PH3-S16   | None |
| PH3-S14   | None |
| PH3-S19   | None |
| PH3-S20   | None |
| PH3-S18   | None |
| PH3-S21   | None |
| PH3-S22   | None |
| PH3-S24   | None |
| PH3-S26   | None |
| Ex-SWMH54 | None |
| PH3-S23   | None |
| PH3-S15   | None |
| PH3-S25   | None |
| PH3-S27   | None |
| PH3-17    | None |

|                                                          |                                                             |             |              |
|----------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works               | Date:<br>03/07/2025                                         |             |              |
|                                                          | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



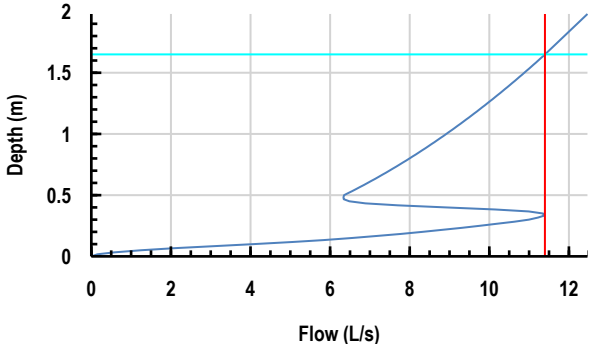
Outlets

| Junction | Outlet Name       | Outgoing Connection                    | Outlet Type    |
|----------|-------------------|----------------------------------------|----------------|
| PH3-S6   | Outlet            | 3.000                                  | Free Discharge |
| PH3-S7   | Outlet            | 3.001                                  | Free Discharge |
| PH3-S8   | Outlet            | 3.002                                  | Free Discharge |
| PH3-S9   | Outlet            | 3.003                                  | Free Discharge |
| PH3-S1   | Outlet            | 1.001                                  | Free Discharge |
| PH3-S3   | Outlet            | 1.003                                  | Free Discharge |
| PH3-S12  | Outlet            | 8.000                                  | Free Discharge |
| PH3-S13  | Outlet            | 7.002                                  | Free Discharge |
| PH3-S10  | Outlet            | 7.000                                  | Free Discharge |
| PH3-S11  | Outlet            | 7.001                                  | Free Discharge |
| PH3-S2   | Outlet            | 1.002                                  | Free Discharge |
| PH3-S4   | Outlet            | 1.004                                  | Free Discharge |
| PH3-S5   | Outlet            | 1.006                                  | Free Discharge |
| PH3-S16  | Outlet            | 3.004                                  | Free Discharge |
| PH3-S14  | Outlet            | 7.003                                  | Free Discharge |
| PH3-S19  | Outlet            | 13.000                                 | Free Discharge |
| PH3-S20  | Outlet            | 1.010                                  | Free Discharge |
| PH3-S18  | Outlet            | 1.009                                  | Hydro-Brake®   |
|          | Invert Level (m)  | 51.550                                 |                |
|          | Design Depth (m)  | 1.550                                  |                |
|          | Design Flow (L/s) | 9.8                                    |                |
|          | Objective         | Minimise Upstream Storage Requirements |                |
|          | Application       | Surface Water Only                     |                |
|          | Sump Available    | <input type="checkbox"/>               |                |
|          | Unit Reference    | CHE-0129-9800-1550-9800                |                |
|          |                   |                                        |                |
|          |                   |                                        |                |
| PH3-S21  | Outlet            | 1.011                                  | Free Discharge |
| PH3-S22  | Outlet            | 1.012                                  | Free Discharge |
| PH3-S24  | Outlet            | 1.013                                  | Free Discharge |
|          | Outlet            | 1.015                                  | Hydro-Brake®   |

|                                                          |                                                             |             |              |
|----------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works               | Date:<br>03/07/2025                                         |             |              |
|                                                          | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |

I

DRN

| Junction | Outlet Name                                                                        | Outgoing Connection                    | Outlet Type    |
|----------|------------------------------------------------------------------------------------|----------------------------------------|----------------|
| PH3-S26  | Invert Level (m)                                                                   | 47.000                                 |                |
|          | Design Depth (m)                                                                   | 1.650                                  |                |
|          | Design Flow (L/s)                                                                  | 11.4                                   |                |
|          | Objective                                                                          | Minimise Upstream Storage Requirements |                |
|          | Application                                                                        | Surface Water Only                     |                |
|          | Sump Available                                                                     | <input type="checkbox"/>               |                |
|          | Unit Reference                                                                     | CHE-0137-1140-1650-1140                |                |
|          |  |                                        |                |
|          | PH3-S23                                                                            | Outlet                                 | 14.000         |
|          | PH3-S15                                                                            | Outlet                                 | 7.004          |
|          | PH3-S25                                                                            | Outlet                                 | 15.001         |
|          | PH3-S27                                                                            | Outlet                                 | 1.016          |
|          | PH3-17                                                                             | Outlet                                 | 1.007          |
|          |                                                                                    |                                        | Free Discharge |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





Pond 1

Type : Pond

Dimensions

|                      |         |
|----------------------|---------|
| Exceedance Level (m) | 53.500  |
| Depth (m)            | 1.500   |
| Base Level (m)       | 52.000  |
| Freeboard (mm)       | 300     |
| Initial Depth (m)    | 0.000   |
| Porosity (%)         | 100     |
| Average Slope (1:X)  | 3.769   |
| Total Volume (m³)    | 209.106 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 80.788    | 0.000       |
| 1.500     | 361.308   | 306.473     |

Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 30.058      |
| Friction Scheme | Manning's n |
| n               | 0.035       |



Pond 2

Type : Pond

Dimensions

|                      |         |
|----------------------|---------|
| Exceedance Level (m) | 49.150  |
| Depth (m)            | 1.500   |
| Base Level (m)       | 47.650  |
| Freeboard (mm)       | 300     |
| Initial Depth (m)    | 0.000   |
| Porosity (%)         | 100     |
| Average Slope (1:X)  | 3.811   |
| Total Volume (m³)    | 179.378 |

| Depth (m) | Area (m²) | Volume (m³) |
|-----------|-----------|-------------|
| 0.000     | 63.166    | 0.000       |
| 1.500     | 326.858   | 266.856     |

Advanced

|                 |             |
|-----------------|-------------|
| Perimeter       | Circular    |
| Length (m)      | 28.842      |
| Friction Scheme | Manning's n |
| n               | 0.03        |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



**Porous Paving 2**

Type : Porous Paving

| Dimensions                  |        |
|-----------------------------|--------|
| Exceedance Level (m)        | 55.150 |
| Depth (m)                   | 0.680  |
| Base Level (m)              | 54.470 |
| Paving Layer Depth (mm)     | 230    |
| Membrane Percolation (m/hr) | 3.0    |
| Porosity (%)                | 30     |
| Length (m)                  | 39.115 |
| Long. Slope (1:X)           | 150.00 |
| Width (m)                   | 8.000  |
| Total Volume (m³)           | 42.245 |

| Advanced            |       |
|---------------------|-------|
| Conductivity (m/hr) | 350.0 |



**Porous Paving 3**

Type : Porous Paving

| Dimensions                  |        |
|-----------------------------|--------|
| Exceedance Level (m)        | 54.935 |
| Depth (m)                   | 0.680  |
| Base Level (m)              | 54.255 |
| Paving Layer Depth (mm)     | 230    |
| Membrane Percolation (m/hr) | 3.0    |
| Porosity (%)                | 30     |
| Length (m)                  | 84.495 |
| Long. Slope (1:X)           | 150.00 |
| Width (m)                   | 7.432  |
| Total Volume (m³)           | 84.776 |

| Advanced            |       |
|---------------------|-------|
| Conductivity (m/hr) | 350.0 |



**Porous Paving 6**

Type : Porous Paving

| Dimensions                  |        |
|-----------------------------|--------|
| Exceedance Level (m)        | 54.000 |
| Depth (m)                   | 0.680  |
| Base Level (m)              | 53.320 |
| Paving Layer Depth (mm)     | 230    |
| Membrane Percolation (m/hr) | 3.0    |
| Porosity (%)                | 30     |
| Length (m)                  | 69.462 |
| Long. Slope (1:X)           | 150.00 |
| Width (m)                   | 7.946  |
| Total Volume (m³)           | 74.511 |

| Advanced            |       |
|---------------------|-------|
| Conductivity (m/hr) | 350.0 |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



**Porous Paving 1**

Type : Porous Paving

| Dimensions                  |        |
|-----------------------------|--------|
| Exceedance Level (m)        | 54.350 |
| Depth (m)                   | 0.680  |
| Base Level (m)              | 53.670 |
| Paving Layer Depth (mm)     | 230    |
| Membrane Percolation (m/hr) | 3.0    |
| Porosity (%)                | 30     |
| Length (m)                  | 75.001 |
| Long. Slope (1:X)           | 125.00 |
| Width (m)                   | 7.994  |
| Total Volume (m³)           | 80.942 |

| Advanced            |       |
|---------------------|-------|
| Conductivity (m/hr) | 350.0 |



**Porous Paving 4**

Type : Porous Paving

| Dimensions                  |        |
|-----------------------------|--------|
| Exceedance Level (m)        | 54.700 |
| Depth (m)                   | 0.680  |
| Base Level (m)              | 54.020 |
| Paving Layer Depth (mm)     | 230    |
| Membrane Percolation (m/hr) | 3.0    |
| Porosity (%)                | 30     |
| Length (m)                  | 10.000 |
| Long. Slope (1:X)           | 150.00 |
| Width (m)                   | 6.200  |
| Total Volume (m³)           | 8.370  |

| Advanced            |       |
|---------------------|-------|
| Conductivity (m/hr) | 350.0 |



**Porous Paving 5**

Type : Porous Paving

| Dimensions                  |        |
|-----------------------------|--------|
| Exceedance Level (m)        | 54.700 |
| Depth (m)                   | 0.680  |
| Base Level (m)              | 54.020 |
| Paving Layer Depth (mm)     | 230    |
| Membrane Percolation (m/hr) | 3.0    |
| Porosity (%)                | 30     |
| Length (m)                  | 10.000 |
| Long. Slope (1:X)           | 150.00 |
| Width (m)                   | 16.000 |
| Total Volume (m³)           | 21.601 |

| Advanced            |       |
|---------------------|-------|
| Conductivity (m/hr) | 350.0 |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





Swale

Type : Swale

|                        |             |
|------------------------|-------------|
| Swale                  |             |
| Exceedance Level (m)   | 50.000      |
| Depth (m)              | 0.900       |
| Base Level (m)         | 49.100      |
| Top Width (m)          | 6.000       |
| Side Slope (1:X)       | 3.00        |
| Base Width (m)         | 0.600       |
| Freeboard (mm)         | 300         |
| Length (m)             | 45.000      |
| Long. Slope (1:X)      | 30.00       |
| Filtration Rate (m/hr) | 0.0         |
| Friction Scheme        | Manning's n |
| n                      | 0.035       |
| Total Volume (m³)      | 64.800      |

|              |     |
|--------------|-----|
| Advanced     |     |
| Swale        |     |
| Porosity (%) | 100 |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





Cellular Storage 1

Type : Cellular Storage

| Dimensions            |         |
|-----------------------|---------|
| Exceedance Level (m)  | 53.150  |
| Depth (m)             | 1.000   |
| Base Level (m)        | 52.150  |
| Number of Crates Long | 1       |
| Number of Crates Wide | 1       |
| Number of Crates High | 1       |
| Porosity (%)          | 95      |
| Crate Length (m)      | 11      |
| Crate Width (m)       | 49      |
| Crate Height (m)      | 1       |
| Total Volume (m³)     | 512.050 |

|                                                                 |                                                             |             |              |
|-----------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      | Date:<br>03/07/2025                                         |             |              |
|                                                                 | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |

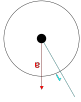
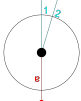
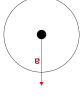
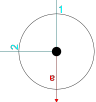


| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| PH3-S6                                   | 55.050<br>53.550                    |    | Diameter / Length: 1.200 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:509418.431<br>N:126636.023             | 1.500                               |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| IP<br>E:509418.431<br>IP<br>N:126636.023 |                                     |                                                                                     |                          | {a} 3.000            | Pipe            | 53.550                | Diam/Width:300       | Not Applicable |                    |                     |
| PH3-S7                                   | 55.025<br>53.275                    |  | Diameter / Length: 1.200 | {1} 3.000            | Pipe            | 53.275                | Diam/Width:300       | Manhole        | {a} Free Discharge |                     |
| E:509376.584<br>N:126636.023             | 1.750                               |                                                                                     |                          | {2} 4.000            | Pipe            | 53.275                | Diam/Width:150       |                |                    |                     |
| IP<br>E:509376.584<br>IP<br>N:126636.023 |                                     |                                                                                     |                          | {a} 3.001            | Pipe            | 53.275                | Diam/Width:300       | Not Applicable |                    |                     |
| PH3-S8                                   | 55.000<br>53.075                    |  | Diameter / Length: 1.350 | {1} 3.001            | Pipe            | 53.075                | Diam/Width:300       | Manhole        | {a} Free Discharge |                     |
| E:509376.584<br>N:126603.249             | 1.925                               |                                                                                     |                          | {2} 5.000            | Pipe            | 53.075                | Diam/Width:150       |                |                    |                     |
| IP<br>E:509376.584<br>IP<br>N:126603.249 |                                     |                                                                                     |                          | {a} 3.002            | Pipe            | 53.075                | Diam/Width:375       | Not Applicable |                    |                     |
| PH3-S9                                   | 54.700<br>52.800                    |  | Diameter / Length: 1.350 | {1} 3.002            | Pipe            | 52.800                | Diam/Width:375       | Manhole        | {a} Free Discharge |                     |
| E:509376.584<br>N:126562.192             | 1.900                               |                                                                                     |                          | {2} 6.000            | Pipe            | 52.800                | Diam/Width:150       |                |                    |                     |
| IP<br>E:509376.584<br>IP<br>N:126562.192 |                                     |                                                                                     |                          | {a} 3.003            | Pipe            | 52.800                | Diam/Width:375       | Not Applicable |                    |                     |

|                                                                 |  |                                                             |             |                                                                                     |              |
|-----------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                 |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |

| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| PH3-S1                                   | 54.800<br>53.300                    |   | Diameter / Length: 1.200 | {1} 1.000            | Pipe            | 53.300                | Diam/Width:150       | Manhole        | {a} Free Discharge |                     |
| E:509439.228<br>N:126608.192             | 1.500                               |                                                                                     |                          | {a} 1.001            | Pipe            | 53.300                | Diam/Width:225       | Not Applicable |                    |                     |
| IP<br>E:509439.228<br>IP<br>N:126608.192 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S3                                   | 54.450<br>52.925                    |  | Diameter / Length: 1.200 | {1} 1.002            | Pipe            | 52.925                | Diam/Width:300       | Manhole        | {a} Free Discharge |                     |
| E:509439.426<br>N:126552.606             | 1.525                               |                                                                                     |                          | {2} 2.000            | Pipe            | 52.925                | Diam/Width:150       |                |                    |                     |
| IP<br>E:509439.426<br>IP<br>N:126552.606 |                                     |                                                                                     |                          | {a} 1.003            | Pipe            | 52.925                | Diam/Width:300       | Not Applicable |                    |                     |
| PH3-S12                                  | 55.100<br>53.600                    |  | Diameter / Length: 0.450 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:509414.839<br>N:126609.246             | 1.500                               |                                                                                     |                          | {a} 8.000            | Pipe            | 53.600                | Diam/Width:225       | Not Applicable |                    |                     |
| IP<br>E:509414.839<br>IP<br>N:126609.246 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S13                                  | 55.000<br>53.075                    |  | Diameter / Length: 1.200 | {1} 8.000            | Pipe            | 53.075                | Diam/Width:225       | Manhole        | {a} Free Discharge |                     |
| E:509414.839<br>N:126566.442             | 1.925                               |                                                                                     |                          | {2} 7.001            | Pipe            | 53.075                | Diam/Width:300       |                |                    |                     |
| IP<br>E:509414.839<br>IP<br>N:126566.442 |                                     |                                                                                     |                          | {a} 7.002            | Pipe            | 53.075                | Diam/Width:300       | Not Applicable |                    |                     |

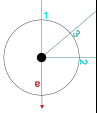
|                                                                 |  |                                                             |             |                                                                                     |              |
|-----------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                 |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |

| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| PH3-S10                                  | 55.100<br>53.600                    |   | Diameter / Length: 0.450 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:509382.521<br>N:126609.246             | 1.500                               |                                                                                     |                          | {a} 7.000            | Pipe            | 53.600                | Diam/Width:225       | Not Applicable |                    |                     |
| IP<br>E:509382.521<br>IP<br>N:126609.246 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S11                                  | 55.000<br>53.300                    |  | Diameter / Length: 1.200 | {1} 7.000            | Pipe            | 53.300                | Diam/Width:225       | Manhole        | {a} Free Discharge |                     |
| E:509382.521<br>N:126566.442             | 1.700                               |                                                                                     |                          | {a} 7.001            | Pipe            | 53.300                | Diam/Width:300       | Not Applicable |                    |                     |
| IP<br>E:509382.521<br>IP<br>N:126566.442 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S2                                   | 54.775<br>53.025                    |  | Diameter / Length: 1.200 | {1} 1.001            | Pipe            | 53.025                | Diam/Width:225       | Manhole        | {a} Free Discharge |                     |
| E:509439.362<br>N:126567.204             | 1.750                               |                                                                                     |                          | {a} 1.002            | Pipe            | 53.025                | Diam/Width:300       | Not Applicable |                    |                     |
| IP<br>E:509439.362<br>IP<br>N:126567.204 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S4                                   | 53.925<br>52.425                    |  | Diameter / Length: 1.200 | {1} 1.003            | Pipe            | 52.425                | Diam/Width:300       | Manhole        | {a} Free Discharge |                     |
| E:509439.426<br>N:126532.996             | 1.500                               |                                                                                     |                          | {a} 1.004            | Pipe            | 52.425                | Diam/Width:300       | Not Applicable |                    |                     |
| IP<br>E:509439.426<br>IP<br>N:126532.996 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S5                                   | 54.200<br>52.125                    |  | Diameter / Length: 1.350 | {1} 1.005            | Pipe            | 52.125                | Diam/Width:450       | Manhole        | {a} Free Discharge |                     |
| E:509385.416<br>N:126532.996             | 2.075                               |                                                                                     |                          | {a} 1.006            | Pipe            | 52.125                | Diam/Width:450       | Not Applicable |                    |                     |
| IP<br>E:509385.416<br>IP<br>N:126532.996 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |

|                                                                 |  |                                                             |             |                                                                                     |              |
|-----------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                 |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |

| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| PH3-S16                                  | 54.400<br>52.700                    |   | Diameter / Length: 1.350 | {1} 3.003            | Pipe            | 52.700                | Diam/Width:375       | Manhole        | {a} Free Discharge |                     |
| E:509376.589<br>N:126548.573             | 1.700                               |                                                                                     |                          | {2} 7.004            | Pipe            | 52.700                | Diam/Width:300       |                |                    |                     |
|                                          |                                     |                                                                                     |                          | {3} 11.000           | Pipe            | 52.700                | Diam/Width:150       |                |                    |                     |
| IP<br>E:509376.589<br>IP<br>N:126548.573 |                                     |                                                                                     |                          | {a} 3.004            | Pipe            | 52.700                | Diam/Width:375       | Not Applicable |                    |                     |
| PH3-S14                                  | 54.500<br>52.950                    |  | Diameter / Length: 1.200 | {1} 7.002            | Pipe            | 52.950                | Diam/Width:300       | Manhole        | {a} Free Discharge |                     |
| E:509414.839<br>N:126548.567             | 1.550                               |                                                                                     |                          | {a} 7.003            | Pipe            | 52.950                | Diam/Width:300       |                |                    |                     |
| IP<br>E:509414.839<br>IP<br>N:126548.567 |                                     |                                                                                     |                          |                      |                 |                       |                      | Not Applicable |                    |                     |
| PH3-S19                                  | 53.600<br>52.025                    |  | Diameter / Length: 1.350 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:509340.625<br>N:126549.013             | 1.575                               |                                                                                     |                          | {a} 13.000           | Pipe            | 52.025                | Diam/Width:375       |                |                    |                     |
| IP<br>E:509340.625<br>IP<br>N:126549.013 |                                     |                                                                                     |                          |                      |                 |                       |                      | Not Applicable |                    |                     |
| PH3-S20                                  | 53.150<br>51.450                    |  | Diameter / Length: 1.350 | {1} 13.000           | Pipe            | 51.450                | Diam/Width:375       | Manhole        | {a} Free Discharge |                     |
| E:509319.338<br>N:126549.007             | 1.700                               |                                                                                     |                          | {2} 1.009            | Pipe            | 51.450                | Diam/Width:450       |                |                    |                     |
| IP<br>E:509319.338<br>IP<br>N:126549.007 |                                     |                                                                                     |                          | {a} 1.010            | Pipe            | 51.450                | Diam/Width:450       | Not Applicable |                    |                     |

|                                                                 |                                                             |             |              |
|-----------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      | Date:<br>03/07/2025                                         |             |              |
|                                                                 | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |

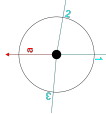


| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| PH3-S18                                  | 53.200<br>51.550                    |    | Diameter / Length: 1.350 | {1} 1.008            | Pipe            | 51.550                | Diam/Width:450       | Manhole        | {a} Hydro-Brake®   | 51.550              |
| E:509328.263<br>N:126542.997             | 1.650                               |                                                                                     |                          | {a} 1.009            | Pipe            | 51.550                | Diam/Width:450       | Not Applicable |                    |                     |
| IP<br>E:509328.263<br>IP<br>N:126542.997 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S21                                  | 52.825<br>51.150                    |  | Diameter / Length: 1.350 | {1} 1.010            | Pipe            | 51.150                | Diam/Width:450       | Manhole        | {a} Free Discharge |                     |
| E:509304.459<br>N:126559.350             | 1.675                               |                                                                                     |                          | {a} 1.011            | Pipe            | 51.150                | Diam/Width:450       | Not Applicable |                    |                     |
| IP<br>E:509304.459<br>IP<br>N:126559.350 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S22                                  | 50.000<br>48.350                    |  | Diameter / Length: 1.350 | {1} 1.011            | Pipe            | 48.350                | Diam/Width:450       | Manhole        | {a} Free Discharge |                     |
| E:509238.116<br>N:126607.422             | 1.650                               |                                                                                     |                          | {a} 1.012            | Pipe            | 48.350                | Diam/Width:450       | Not Applicable |                    |                     |
| IP<br>E:509238.116<br>IP<br>N:126607.422 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S24                                  | 49.350<br>47.700                    |  | Diameter / Length: 1.350 | {1} 1.012            | Pipe            | 47.700                | Diam/Width:450       | Manhole        | {a} Free Discharge |                     |
| E:509236.571<br>N:126629.553             | 1.650                               |                                                                                     |                          | {2} 14.000           | Pipe            | 47.700                | Diam/Width:450       |                |                    |                     |
| IP<br>E:509236.571<br>IP<br>N:126629.553 |                                     |                                                                                     |                          | {a} 1.013            | Pipe            | 47.700                | Diam/Width:525       | Not Applicable |                    |                     |
| PH3-S26                                  | 48.800<br>47.000                    |  | Diameter / Length: 1.350 | {1} 1.014            | Pipe            | 47.000                | Diam/Width:525       | Manhole        | {a} Hydro-Brake®   | 47.000              |
| E:509202.357<br>N:126643.682             | 1.800                               |                                                                                     |                          | {a} 1.015            | Pipe            | 47.000                | Diam/Width:225       | Not Applicable |                    |                     |
| IP<br>E:509202.357<br>IP<br>N:126643.682 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |

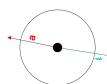
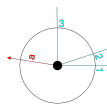
|                                                                 |  |                                                             |             |                                                                                     |              |
|-----------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                 |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |

| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| Ex-SWMH54                                | 47.156<br>45.925                    |    | Diameter / Length: 1.200 | {1} 1.016            | Pipe            | 45.925                | Diam/Width:225       | Manhole        |                    |                     |
| E:509157.245<br>N:126652.310             | 1.231                               |                                                                                     |                          |                      |                 |                       |                      | Not Applicable |                    |                     |
| IP<br>E:509157.245<br>IP<br>N:126652.310 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-S23                                  | 49.200<br>47.750                    |  | Diameter / Length: 1.350 |                      |                 |                       |                      | Manhole        | {a} Free Discharge |                     |
| E:509238.178<br>N:126637.970             | 1.450                               |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| IP<br>E:509238.178<br>IP<br>N:126637.970 |                                     |                                                                                     |                          | {a} 14.000           | Pipe            | 47.750                | Diam/Width:450       | Not Applicable |                    |                     |
| PH3-S15                                  | 54.550<br>52.900                    |  | Diameter / Length: 1.200 | {1} 7.003            | Pipe            | 52.900                | Diam/Width:300       | Manhole        | {a} Free Discharge |                     |
| E:509407.105<br>N:126548.567             | 1.650                               |                                                                                     |                          | {2} 9.000            | Pipe            | 52.900                | Diam/Width:150       |                |                    |                     |
|                                          |                                     |                                                                                     |                          | {3} 10.000           | Pipe            | 52.900                | Diam/Width:150       |                |                    |                     |
| IP<br>E:509407.105<br>IP<br>N:126548.567 |                                     |                                                                                     |                          | {a} 7.004            | Pipe            | 52.900                | Diam/Width:300       | Not Applicable |                    |                     |
| PH3-S25                                  | 49.700<br>48.375                    |  | Diameter / Length: 1.200 | {1} 15.000           | Pipe            | 48.375                | Diam/Width:225       | Manhole        | {a} Free Discharge |                     |
| E:509230.125<br>N:126608.222             | 1.325                               |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| IP<br>E:509230.125<br>IP<br>N:126608.222 |                                     |                                                                                     |                          | {a} 15.001           | Pipe            | 48.375                | Diam/Width:225       | Not Applicable |                    |                     |

|                                                                 |  |                                                             |             |                                                                                     |              |
|-----------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                      |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                 |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Manhole Schedule<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |

| Setting Out Information                        |       |
|------------------------------------------------|-------|
| Easting Origin (m)                             | 0.000 |
| Northing Origin (m)                            | 0.000 |
| Orientation (Degrees anticlockwise from North) | 0     |

| Name                                     | Cover Level (m)<br>Invert Level (m) | Manhole Schematic                                                                   | Manhole Size (m)         | Connection Details   |                 |                       |                      | Type           |                    |                     |
|------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------|-----------------------|----------------------|----------------|--------------------|---------------------|
| Coordinates (m)                          | Depth (m)                           |                                                                                     |                          | Incoming Connections | Connection Type | Connection Invert (m) | Connection Size (mm) | Junction Type  | Flow Control Type  | Flow Control IL (m) |
| Intersection (m)                         |                                     |                                                                                     |                          | Outgoing Connections |                 |                       |                      | Cover          |                    |                     |
| PH3-S27                                  | 48.350<br>46.850                    |    | Diameter / Length: 1.200 | {1} 1.015            | Pipe            | 46.850                | Diam/Width:225       | Manhole        | {a} Free Discharge |                     |
| E:509188.425<br>N:126645.887             | 1.500                               |                                                                                     |                          | {a} 1.016            | Pipe            | 46.850                | Diam/Width:225       | Not Applicable |                    |                     |
| IP<br>E:509188.425<br>IP<br>N:126645.887 |                                     |                                                                                     |                          |                      |                 |                       |                      |                |                    |                     |
| PH3-17                                   | 54.000<br>52.075                    |  | Diameter / Length: 1.200 | {1} 1.006            | Pipe            | 52.075                | Diam/Width:450       | Manhole        | {a} Free Discharge |                     |
| E:509376.747<br>N:126532.973             | 1.925                               |                                                                                     |                          | {2} 12.000           | Pipe            | 52.075                | Diam/Width:150       | Not Applicable |                    |                     |
|                                          |                                     |                                                                                     |                          | {3} 3.004            | Pipe            | 52.075                | Diam/Width:375       |                |                    |                     |
| IP<br>E:509376.747<br>IP<br>N:126532.973 |                                     |                                                                                     |                          | {a} 1.007            | Pipe            | 52.075                | Diam/Width:450       |                |                    |                     |

|                                                               |                                                             |             |              |
|---------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                    | Date:<br>03/07/2025                                         |             |              |
|                                                               | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Inflow Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



| Inflow Label        | Connected To    | Flow (L/s) | Runoff Method         | Area (ha)    | Percentage Impervious (%) | Urban Creep (%) | Adjusted Percentage Impervious (%) | Area Analysed (ha) |
|---------------------|-----------------|------------|-----------------------|--------------|---------------------------|-----------------|------------------------------------|--------------------|
| Catchment Area      | PH3-S6          |            | Time of Concentration | 0.097        | 100                       | 0               | 100                                | 0.097              |
| Catchment Area (1)  | Porous Paving 2 |            | Time of Concentration | 0.039        | 100                       | 0               | 100                                | 0.039              |
| Catchment Area (2)  | PH3-S8          |            | Time of Concentration | 0.049        | 100                       | 0               | 100                                | 0.049              |
| Catchment Area (3)  | PH3-S7          |            | Time of Concentration | 0.093        | 100                       | 0               | 100                                | 0.093              |
| Catchment Area (4)  | Porous Paving 1 |            | Time of Concentration | 0.031        | 100                       | 0               | 100                                | 0.031              |
| Catchment Area (5)  | PH3-S1          |            | Time of Concentration | 0.045        | 100                       | 0               | 100                                | 0.045              |
| Catchment Area (6)  | PH3-S1          |            | Time of Concentration | 0.113        | 100                       | 0               | 100                                | 0.113              |
| Catchment Area (7)  | PH3-S12         |            | Time of Concentration | 0.067        | 100                       | 0               | 100                                | 0.067              |
| Catchment Area (8)  | PH3-S10         |            | Time of Concentration | 0.070        | 100                       | 0               | 100                                | 0.070              |
| Catchment Area (9)  | PH3-S14         |            | Time of Concentration | 0.104        | 100                       | 0               | 100                                | 0.104              |
| Catchment Area (10) |                 |            | Time of Concentration | 0.185        | 100                       | 0               | 100                                | 0.185              |
| Catchment Area (11) | PH3-S3          |            | Time of Concentration | 0.035        | 100                       | 0               | 100                                | 0.035              |
| Catchment Area (12) | Porous Paving 1 |            | Time of Concentration | 0.028        | 100                       | 0               | 100                                | 0.028              |
| Catchment Area (13) | Porous Paving 3 |            | Time of Concentration | 0.067        | 100                       | 0               | 100                                | 0.067              |
| Catchment Area (14) | Porous Paving 6 |            | Time of Concentration | 0.055        | 100                       | 0               | 100                                | 0.055              |
| Catchment Area (15) | PH3-S23         |            | Time of Concentration | 0.022        | 100                       | 0               | 100                                | 0.022              |
| Catchment Area (16) | PH3-S22         |            | Time of Concentration | 0.034        | 100                       | 0               | 100                                | 0.034              |
| Catchment Area (17) | PH3-S19         |            | Time of Concentration | 0.019        | 100                       | 0               | 100                                | 0.019              |
| Catchment Area (18) | PH3-S19         |            | Time of Concentration | 0.018        | 100                       | 0               | 100                                | 0.018              |
| Catchment Area (19) | PH3-S20         |            | Time of Concentration | 0.017        | 100                       | 0               | 100                                | 0.017              |
| Catchment Area (20) | Swale           |            | Time of Concentration | 0.073        | 100                       | 0               | 100                                | 0.073              |
| Catchment Area (24) | Porous Paving 4 |            | Time of Concentration | 0.006        | 100                       | 0               | 100                                | 0.006              |
| Catchment Area (25) | Porous Paving 5 |            | Time of Concentration | 0.016        | 100                       | 0               | 100                                | 0.016              |
| Catchment Area (26) | PH3-S15         |            | Time of Concentration | 0.022        | 100                       | 0               | 100                                | 0.022              |
| Catchment Area (27) | PH3-S16         |            | Time of Concentration | 0.034        | 100                       | 0               | 100                                | 0.034              |
| Catchment Area (28) | PH3-S16         |            | Time of Concentration | 0.014        | 100                       | 0               | 100                                | 0.014              |
| <b>TOTAL</b>        |                 | <b>0.0</b> |                       | <b>1.355</b> |                           |                 |                                    | <b>1.355</b>       |

|                                                 |                                                             |             |              |
|-------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works      | Date:<br>03/07/2025                                         |             |              |
|                                                 | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Title:<br><br>Rainfall Analysis Criteria | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



|                                 |                          |
|---------------------------------|--------------------------|
| Runoff Type                     | Dynamic                  |
| Output Interval (mins)          | 5                        |
| Time Step                       | Default                  |
| Urban Creep                     | Apply Global Value       |
| Urban Creep Global Value (%)    | 0                        |
| Junction Flood Risk Margin (mm) | 0                        |
| Perform No Discharge Analysis   | <input type="checkbox"/> |

|                  |                                     |
|------------------|-------------------------------------|
| Rainfall         |                                     |
| FEH              | Type: FEH                           |
| Site Location    | GB 509669 126441 TQ 09669 26441     |
| Rainfall Version | 2022                                |
| Summer           | <input checked="" type="checkbox"/> |
| Winter           | <input checked="" type="checkbox"/> |

Return Period

| Return Period (years) | Increase Rainfall (%) |
|-----------------------|-----------------------|
| 2.0                   | 0.000                 |
| 30.0                  | 40.000                |
| 100.0                 | 45.000                |

Storm Durations

| Duration (mins) | Run Time (mins) |
|-----------------|-----------------|
| 15              | 30              |
| 30              | 60              |
| 60              | 120             |
| 120             | 240             |
| 180             | 360             |
| 240             | 480             |
| 360             | 720             |
| 480             | 960             |
| 600             | 1200            |
| 720             | 1440            |
| 960             | 1920            |
| 1440            | 2880            |

|                                                                  |                                                             |             |              |
|------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                       | Date:<br>03/07/2025                                         |             |              |
|                                                                  | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

| Junction  | 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     |
|-----------|--------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| PH3-S6    | FEH: 2 years: +0 %: 15 mins: Summer  | 55.050          | 53.550           | 53.648         | 0.098          | 21.9              | 0.111                     | 0.000                    | 20.9               | 9.483                       | OK         |
| PH3-S7    | FEH: 2 years: +0 %: 15 mins: Summer  | 55.025          | 53.275           | 53.428         | 0.153          | 43.2              | 0.173                     | 0.000                    | 39.7               | 19.349                      | OK         |
| PH3-S8    | FEH: 2 years: +0 %: 15 mins: Summer  | 55.000          | 53.075           | 53.222         | 0.147          | 51.7              | 0.210                     | 0.000                    | 47.8               | 24.657                      | OK         |
| PH3-S9    | FEH: 2 years: +0 %: 15 mins: Summer  | 54.700          | 52.800           | 52.947         | 0.147          | 49.0              | 0.211                     | 0.000                    | 45.4               | 25.283                      | OK         |
| PH3-S1    | FEH: 2 years: +0 %: 15 mins: Summer  | 54.800          | 53.300           | 53.464         | 0.164          | 36.4              | 0.186                     | 0.000                    | 34.4               | 15.903                      | OK         |
| PH3-S3    | FEH: 2 years: +0 %: 15 mins: Summer  | 54.450          | 52.925           | 53.030         | 0.105          | 41.7              | 0.119                     | 0.000                    | 40.6               | 19.991                      | OK         |
| PH3-S12   | FEH: 2 years: +0 %: 15 mins: Summer  | 55.100          | 53.600           | 53.677         | 0.077          | 15.2              | 0.012                     | 0.000                    | 14.7               | 6.599                       | OK         |
| PH3-S13   | FEH: 2 years: +0 %: 15 mins: Summer  | 55.000          | 53.075           | 53.185         | 0.110          | 28.6              | 0.125                     | 0.000                    | 25.5               | 13.420                      | OK         |
| PH3-S10   | FEH: 2 years: +0 %: 15 mins: Summer  | 55.100          | 53.600           | 53.697         | 0.097          | 15.9              | 0.015                     | 0.000                    | 15.2               | 6.904                       | OK         |
| PH3-S11   | FEH: 2 years: +0 %: 15 mins: Summer  | 55.000          | 53.300           | 53.378         | 0.078          | 15.2              | 0.089                     | 0.000                    | 14.0               | 6.883                       | OK         |
| PH3-S2    | FEH: 2 years: +0 %: 15 mins: Summer  | 54.775          | 53.025           | 53.157         | 0.132          | 34.4              | 0.149                     | 0.000                    | 32.7               | 15.866                      | OK         |
| PH3-S4    | FEH: 2 years: +0 %: 15 mins: Summer  | 53.925          | 52.425           | 52.509         | 0.084          | 40.6              | 0.095                     | 0.000                    | 40.0               | 19.986                      | OK         |
| PH3-S5    | FEH: 2 years: +0 %: 240 mins: Winter | 54.200          | 52.125           | 52.350         | 0.225          | 19.3              | 0.323                     | 0.000                    | 4.9                | 124.386                     | OK         |
| PH3-S16   | FEH: 2 years: +0 %: 15 mins: Summer  | 54.400          | 52.700           | 52.841         | 0.141          | 107.7             | 0.201                     | 0.000                    | 104.1              | 56.905                      | OK         |
| PH3-S14   | FEH: 2 years: +0 %: 15 mins: Summer  | 54.500          | 52.950           | 53.135         | 0.185          | 49.0              | 0.209                     | 0.000                    | 47.2               | 23.629                      | OK         |
| PH3-S19   | FEH: 2 years: +0 %: 15 mins: Summer  | 53.600          | 52.025           | 52.066         | 0.041          | 8.5               | 0.058                     | 0.000                    | 8.3                | 3.702                       | OK         |
| PH3-S20   | FEH: 2 years: +0 %: 15 mins: Summer  | 53.150          | 51.450           | 51.516         | 0.066          | 17.9              | 0.094                     | 0.000                    | 17.4               | 13.578                      | OK         |
| PH3-S18   | FEH: 2 years: +0 %: 240 mins: Winter | 53.200          | 51.550           | 52.350         | 0.800          | 11.0              | 1.145                     | 0.000                    | 9.5                | 177.900                     | Surcharged |
| PH3-S21   | FEH: 2 years: +0 %: 15 mins: Summer  | 52.825          | 51.150           | 51.201         | 0.051          | 17.4              | 0.073                     | 0.000                    | 16.6               | 13.266                      | OK         |
| PH3-S22   | FEH: 2 years: +0 %: 15 mins: Summer  | 50.000          | 48.350           | 48.411         | 0.061          | 24.3              | 0.087                     | 0.000                    | 22.5               | 16.326                      | OK         |
| PH3-S24   | FEH: 2 years: +0 %: 180 mins: Winter | 49.350          | 47.700           | 47.985         | 0.285          | 12.8              | 0.408                     | 0.000                    | 12.0               | 160.851                     | OK         |
| PH3-S26   | FEH: 2 years: +0 %: 180 mins: Winter | 48.800          | 47.000           | 47.985         | 0.985          | 13.3              | 1.409                     | 0.000                    | 10.5               | 164.450                     | Surcharged |
| Ex-SWMH54 | FEH: 2 years: +0 %: 960 mins: Summer | 47.156          | 45.925           | 45.979         | 0.054          | 11.4              | 0.000                     | 0.000                    | 11.4               | 430.435                     | OK         |
| PH3-S23   | FEH: 2 years: +0 %: 180 mins: Winter | 49.200          | 47.750           | 47.985         | 0.235          | 1.3               | 0.336                     | 0.000                    | 1.0                | 5.323                       | OK         |
| PH3-S15   | FEH: 2 years: +0 %: 15 mins: Summer  | 54.550          | 52.900           | 53.073         | 0.173          | 53.2              | 0.195                     | 0.000                    | 50.7               | 26.405                      | OK         |
| PH3-S25   | FEH: 2 years: +0 %: 15 mins: Summer  | 49.700          | 48.375           | 48.428         | 0.053          | 13.9              | 0.060                     | 0.000                    | 13.6               | 7.115                       | OK         |
| PH3-S27   | FEH: 2 years: +0 %: 960 mins: Summer | 48.350          | 46.850           | 46.905         | 0.055          | 11.4              | 0.062                     | 0.000                    | 11.4               | 430.435                     | OK         |
| PH3-17    | FEH: 2 years: +0 %: 240 mins: Winter | 54.000          | 52.075           | 52.350         | 0.275          | 29.0              | 0.311                     | 0.000                    | 19.1               | 250.374                     | OK         |

|                                                                  |                                                             |             |              |
|------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                       | Date:<br>03/07/2025                                         |             |              |
|                                                                  | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

| Junction  | 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     |
|-----------|--------------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| PH3-S6    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.050          | 53.550           | 54.064         | 0.514          | 68.8              | 0.581                     | 0.000                    | 60.4               | 29.849                      | Surcharged |
| PH3-S7    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.025          | 53.275           | 53.905         | 0.630          | 131.7             | 0.712                     | 0.000                    | 124.3              | 61.130                      | Surcharged |
| PH3-S8    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.000          | 53.075           | 53.408         | 0.333          | 162.7             | 0.476                     | 0.000                    | 150.9              | 77.906                      | OK         |
| PH3-S9    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 54.700          | 52.800           | 53.145         | 0.345          | 155.5             | 0.494                     | 0.000                    | 145.6              | 80.221                      | OK         |
| PH3-S1    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 54.800          | 53.300           | 54.281         | 0.981          | 112.9             | 1.109                     | 0.000                    | 79.0               | 49.680                      | Surcharged |
| PH3-S3    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 54.450          | 52.925           | 53.140         | 0.215          | 129.2             | 0.243                     | 0.000                    | 126.5              | 63.287                      | OK         |
| PH3-S12   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.100          | 53.600           | 54.089         | 0.489          | 47.8              | 0.078                     | 0.000                    | 38.7               | 20.633                      | Surcharged |
| PH3-S13   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.000          | 53.075           | 53.812         | 0.737          | 70.4              | 0.833                     | 0.000                    | 63.4               | 42.381                      | Surcharged |
| PH3-S10   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.100          | 53.600           | 54.155         | 0.555          | 50.1              | 0.088                     | 0.000                    | 41.5               | 21.594                      | Surcharged |
| PH3-S11   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 55.000          | 53.300           | 53.859         | 0.559          | 41.5              | 0.632                     | 0.000                    | 31.7               | 21.753                      | Surcharged |
| PH3-S2    | FEH: 30 years: +40 %:<br>15 mins: Summer   | 54.775          | 53.025           | 53.267         | 0.242          | 79.0              | 0.274                     | 0.000                    | 77.4               | 42.882                      | OK         |
| PH3-S4    | FEH: 30 years: +40 %:<br>360 mins: Winter  | 53.925          | 52.425           | 52.897         | 0.472          | 19.8              | 0.534                     | 0.000                    | 19.4               | 183.306                     | Surcharged |
| PH3-S5    | FEH: 30 years: +40 %:<br>360 mins: Winter  | 54.200          | 52.125           | 52.897         | 0.772          | 33.7              | 1.104                     | 0.000                    | 5.8                | 328.892                     | Surcharged |
| PH3-S16   | FEH: 30 years: +40 %:<br>15 mins: Winter   | 54.400          | 52.700           | 53.012         | 0.312          | 298.8             | 0.446                     | 0.000                    | 302.1              | 176.664                     | OK         |
| PH3-S14   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 54.500          | 52.950           | 53.722         | 0.772          | 136.9             | 0.873                     | 0.000                    | 131.5              | 74.491                      | Surcharged |
| PH3-S19   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 53.600          | 52.025           | 52.096         | 0.071          | 26.8              | 0.102                     | 0.000                    | 26.4               | 11.641                      | OK         |
| PH3-S20   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 53.150          | 51.450           | 51.556         | 0.106          | 45.3              | 0.152                     | 0.000                    | 43.9               | 27.209                      | OK         |
| PH3-S18   | FEH: 30 years: +40 %:<br>360 mins: Winter  | 53.200          | 51.550           | 52.898         | 1.348          | 10.2              | 1.928                     | 0.000                    | 9.8                | 343.305                     | Surcharged |
| PH3-S21   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 52.825          | 51.150           | 51.230         | 0.080          | 43.9              | 0.114                     | 0.000                    | 41.9               | 26.848                      | OK         |
| PH3-S22   | FEH: 30 years: +40 %:<br>360 mins: Winter  | 50.000          | 48.350           | 48.519         | 0.169          | 16.0              | 0.242                     | 0.000                    | 16.0               | 414.567                     | OK         |
| PH3-S24   | FEH: 30 years: +40 %:<br>360 mins: Winter  | 49.350          | 47.700           | 48.520         | 0.820          | 17.9              | 1.173                     | 0.000                    | 17.4               | 426.440                     | Surcharged |
| PH3-S26   | FEH: 30 years: +40 %:<br>360 mins: Winter  | 48.800          | 47.000           | 48.518         | 1.518          | 12.0              | 2.173                     | 0.000                    | 11.4               | 411.197                     | Surcharged |
| Ex-SWMH54 | FEH: 30 years: +40 %:<br>1440 mins: Summer | 47.156          | 45.925           | 45.979         | 0.054          | 11.4              | 0.000                     | 0.000                    | 11.4               | 1195.995                    | OK         |
| PH3-S23   | FEH: 30 years: +40 %:<br>360 mins: Winter  | 49.200          | 47.750           | 48.520         | 0.770          | 2.1               | 1.101                     | 0.000                    | 1.9                | 16.344                      | Surcharged |
| PH3-S15   | FEH: 30 years: +40 %:<br>15 mins: Summer   | 54.550          | 52.900           | 53.525         | 0.625          | 148.7             | 0.706                     | 0.000                    | 131.7              | 83.118                      | Surcharged |
| PH3-S25   | FEH: 30 years: +40 %:<br>360 mins: Winter  | 49.700          | 48.375           | 48.519         | 0.144          | 6.9               | 0.162                     | 0.000                    | 6.9                | 59.515                      | OK         |
| PH3-S27   | FEH: 30 years: +40 %:<br>1440 mins: Summer | 48.350          | 46.850           | 46.905         | 0.055          | 11.4              | 0.062                     | 0.000                    | 11.4               | 1195.995                    | OK         |
| PH3-17    | FEH: 30 years: +40 %:<br>360 mins: Winter  | 54.000          | 52.075           | 52.896         | 0.821          | 57.9              | 0.929                     | 0.000                    | 24.2               | 652.406                     | Surcharged |

|                                                                  |                                                             |             |              |
|------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                       | Date:<br>03/07/2025                                         |             |              |
|                                                                  | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Junctions Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

| Junction  | 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     |
|-----------|-----------------------------------------|-----------------|------------------|----------------|----------------|-------------------|---------------------------|--------------------------|--------------------|-----------------------------|------------|
| PH3-S6    | FEH: 100 years: +45 %: 15 mins: Summer  | 55.050          | 53.550           | 54.895         | 1.345          | 90.1              | 1.521                     | 0.000                    | 78.3               | 39.052                      | Surcharged |
| PH3-S7    | FEH: 100 years: +45 %: 15 mins: Summer  | 55.025          | 53.275           | 54.630         | 1.355          | 165.3             | 1.533                     | 0.000                    | 145.8              | 81.577                      | Surcharged |
| PH3-S8    | FEH: 100 years: +45 %: 15 mins: Summer  | 55.000          | 53.075           | 54.008         | 0.933          | 196.2             | 1.335                     | 0.000                    | 185.2              | 101.976                     | Surcharged |
| PH3-S9    | FEH: 100 years: +45 %: 15 mins: Summer  | 54.700          | 52.800           | 53.583         | 0.783          | 191.4             | 1.121                     | 0.000                    | 181.2              | 105.094                     | Surcharged |
| PH3-S1    | FEH: 100 years: +45 %: 15 mins: Summer  | 54.800          | 53.300           | 54.781         | 1.481          | 147.7             | 1.675                     | 0.000                    | 95.5               | 64.785                      | Surcharged |
| PH3-S3    | FEH: 100 years: +45 %: 15 mins: Summer  | 54.450          | 52.925           | 53.209         | 0.284          | 169.9             | 0.321                     | 0.000                    | 165.7              | 82.843                      | OK         |
| PH3-S12   | FEH: 100 years: +45 %: 15 mins: Summer  | 55.100          | 53.600           | 54.819         | 1.219          | 62.5              | 0.194                     | 0.000                    | 49.8               | 27.026                      | Surcharged |
| PH3-S13   | FEH: 100 years: +45 %: 15 mins: Summer  | 55.000          | 53.075           | 54.417         | 1.342          | 90.4              | 1.518                     | 0.000                    | 78.7               | 55.506                      | Surcharged |
| PH3-S10   | FEH: 100 years: +45 %: 15 mins: Summer  | 55.100          | 53.600           | 54.914         | 1.314          | 65.5              | 0.209                     | 0.000                    | 52.3               | 28.261                      | Surcharged |
| PH3-S11   | FEH: 100 years: +45 %: 15 mins: Summer  | 55.000          | 53.300           | 54.471         | 1.171          | 52.3              | 1.324                     | 0.000                    | 40.6               | 28.479                      | Surcharged |
| PH3-S2    | FEH: 100 years: +45 %: 15 mins: Summer  | 54.775          | 53.025           | 53.356         | 0.331          | 95.5              | 0.375                     | 0.000                    | 91.4               | 52.238                      | Surcharged |
| PH3-S4    | FEH: 100 years: +45 %: 480 mins: Winter | 53.925          | 52.425           | 53.148         | 0.723          | 20.5              | 0.817                     | 0.000                    | 20.2               | 257.025                     | Surcharged |
| PH3-S5    | FEH: 100 years: +45 %: 480 mins: Winter | 54.200          | 52.125           | 53.148         | 1.023          | 33.1              | 1.463                     | 0.000                    | 5.9                | 433.304                     | Surcharged |
| PH3-S16   | FEH: 100 years: +45 %: 15 mins: Summer  | 54.400          | 52.700           | 53.401         | 0.701          | 375.6             | 1.003                     | 0.000                    | 366.5              | 223.292                     | Surcharged |
| PH3-S14   | FEH: 100 years: +45 %: 15 mins: Summer  | 54.500          | 52.950           | 54.301         | 1.351          | 175.7             | 1.528                     | 0.000                    | 165.5              | 97.554                      | Surcharged |
| PH3-S19   | FEH: 100 years: +45 %: 15 mins: Summer  | 53.600          | 52.025           | 52.106         | 0.081          | 35.1              | 0.117                     | 0.000                    | 34.6               | 15.222                      | OK         |
| PH3-S20   | FEH: 100 years: +45 %: 15 mins: Summer  | 53.150          | 51.450           | 51.571         | 0.121          | 57.5              | 0.173                     | 0.000                    | 55.8               | 33.053                      | OK         |
| PH3-S18   | FEH: 100 years: +45 %: 480 mins: Winter | 53.200          | 51.550           | 53.147         | 1.597          | 10.1              | 2.286                     | 0.000                    | 9.8                | 493.064                     | Surcharged |
| PH3-S21   | FEH: 100 years: +45 %: 15 mins: Summer  | 52.825          | 51.150           | 51.240         | 0.090          | 55.8              | 0.129                     | 0.000                    | 53.4               | 32.674                      | OK         |
| PH3-S22   | FEH: 100 years: +45 %: 480 mins: Winter | 50.000          | 48.350           | 48.706         | 0.356          | 16.9              | 0.510                     | 0.000                    | 16.8               | 588.590                     | OK         |
| PH3-S24   | FEH: 100 years: +45 %: 480 mins: Winter | 49.350          | 47.700           | 48.706         | 1.006          | 18.8              | 1.439                     | 0.000                    | 18.5               | 606.187                     | Surcharged |
| PH3-S26   | FEH: 100 years: +45 %: 480 mins: Winter | 48.800          | 47.000           | 48.706         | 1.706          | 11.9              | 2.441                     | 0.000                    | 11.4               | 581.351                     | Surcharged |
| Ex-SWMH54 | FEH: 100 years: +45 %: 720 mins: Winter | 47.156          | 45.925           | 45.979         | 0.054          | 11.4              | 0.000                     | 0.000                    | 11.4               | 868.185                     | OK         |
| PH3-S23   | FEH: 100 years: +45 %: 480 mins: Winter | 49.200          | 47.750           | 48.706         | 0.956          | 2.1               | 1.368                     | 0.000                    | 2.0                | 22.533                      | Surcharged |
| PH3-S15   | FEH: 100 years: +45 %: 15 mins: Summer  | 54.550          | 52.900           | 54.009         | 1.109          | 188.0             | 1.254                     | 0.000                    | 145.5              | 109.185                     | Surcharged |
| PH3-S25   | FEH: 100 years: +45 %: 480 mins: Winter | 49.700          | 48.375           | 48.706         | 0.331          | 7.1               | 0.374                     | 0.000                    | 7.1                | 81.033                      | Surcharged |
| PH3-S27   | FEH: 100 years: +45 %: 720 mins: Winter | 48.350          | 46.850           | 46.905         | 0.055          | 11.4              | 0.062                     | 0.000                    | 11.4               | 868.185                     | OK         |
| PH3-17    | FEH: 100 years: +45 %: 480 mins: Winter | 54.000          | 52.075           | 53.148         | 1.073          | 60.1              | 1.213                     | 0.000                    | 27.6               | 906.321                     | Surcharged |

|                                                                            |  |                                                             |             |                                                                                     |              |
|----------------------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                                 |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                            |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

| Stormwater Control | Storm Event                              | Max. US Level (m) | Max. DS Level (m) | Max. Avg. Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Avg. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) |
|--------------------|------------------------------------------|-------------------|-------------------|---------------------|-------------------|-------------------|---------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|
| Porous Paving 2    | FEH: 2 years: +0<br>%: 480 mins: Summer  | 54.808            | 54.478            | 54.551              | 0.077             | 0.008             | 0.081               | 1.8               | 7.612                     | 0.000                    | 0.000                  | 0.5                | 10.089                      |
| Porous Paving 3    | FEH: 2 years: +0<br>%: 1440 mins: Summer | 54.889            | 54.260            | 54.341              | 0.071             | 0.005             | 0.086               | 1.3               | 16.257                    | 0.000                    | 0.000                  | 0.4                | 25.338                      |
| Porous Paving 6    | FEH: 2 years: +0<br>%: 960 mins: Summer  | 53.849            | 53.326            | 53.397              | 0.066             | 0.006             | 0.077               | 1.5               | 12.725                    | 0.000                    | 0.000                  | 0.4                | 17.452                      |
| Pond 1             | FEH: 2 years: +0<br>%: 240 mins: Winter  | 52.350            | 52.350            | 52.350              | 0.350             | 0.350             | 0.350               | 19.1              | 36.285                    | 0.000                    | 0.000                  | 11.0               | 179.280                     |
| Pond 2             | FEH: 2 years: +0<br>%: 180 mins: Winter  | 47.985            | 47.985            | 47.985              | 0.335             | 0.335             | 0.335               | 16.3              | 27.755                    | 0.000                    | 0.000                  | 13.3               | 166.260                     |
| Porous Paving 1    | FEH: 2 years: +0<br>%: 960 mins: Summer  | 54.331            | 53.676            | 53.745              | 0.061             | 0.006             | 0.075               | 1.5               | 13.456                    | 0.000                    | 0.000                  | 0.4                | 19.461                      |
| Porous Paving 4    | FEH: 2 years: +0<br>%: 240 mins: Summer  | 54.136            | 54.026            | 54.057              | 0.049             | 0.006             | 0.037               | 0.4               | 0.695                     | 0.000                    | 0.000                  | 0.2                | 1.635                       |
| Porous Paving 5    | FEH: 2 years: +0<br>%: 240 mins: Summer  | 54.136            | 54.029            | 54.058              | 0.049             | 0.009             | 0.038               | 1.1               | 1.833                     | 0.000                    | 0.000                  | 0.5                | 4.224                       |
| Cellular Storage 1 | FEH: 2 years: +0<br>%: 240 mins: Winter  | 52.350            | 52.350            | 52.350              | 0.200             | 0.200             | 0.200               | 29.0              | 102.634                   | 0.000                    | 0.000                  | 4.8                | 73.920                      |
| Swale              | FEH: 2 years: +0<br>%: 15 mins: Summer   | 50.641            | 49.147            | 49.141              | 0.041             | 0.047             | 0.041               | 16.5              | 1.332                     | 0.000                    | 0.000                  | 13.9               | 7.108                       |

|                                                                            |                                                             |             |              |
|----------------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                                 | Date:<br>03/07/2025                                         |             |              |
|                                                                            | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



| Percentage Available (%) | Status |
|--------------------------|--------|
| 81.981                   | OK     |
| 80.824                   | OK     |
| 82.921                   | OK     |
| 82.648                   | OK     |
| 84.527                   | OK     |
| 83.376                   | OK     |
| 91.696                   | OK     |
| 91.512                   | OK     |
| 79.956                   | OK     |
| 97.945                   | OK     |

|                                                                            |  |                                                             |             |                                                                                     |              |
|----------------------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                                 |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                            |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

| Stormwater Control | Storm Event                            | Max. US Level (m) | Max. DS Level (m) | Max. Avg. Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Avg. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) |
|--------------------|----------------------------------------|-------------------|-------------------|---------------------|-------------------|-------------------|---------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|
| Porous Paving 2    | FEH: 30 years: +40 %: 360 mins: Summer | 54.952            | 54.485            | 54.665              | 0.221             | 0.015             | 0.195               | 5.6               | 18.268                    | 0.000                    | 0.000                  | 1.6                | 23.753                      |
| Porous Paving 3    | FEH: 30 years: +40 %: 480 mins: Winter | 55.031            | 54.263            | 54.462              | 0.212             | 0.008             | 0.207               | 5.1               | 39.064                    | 0.000                    | 0.000                  | 1.3                | 32.414                      |
| Porous Paving 6    | FEH: 30 years: +40 %: 360 mins: Winter | 53.975            | 53.330            | 53.505              | 0.192             | 0.010             | 0.185               | 5.3               | 30.692                    | 0.000                    | 0.000                  | 1.3                | 24.308                      |
| Pond 1             | FEH: 30 years: +40 %: 360 mins: Winter | 52.896            | 52.897            | 52.896              | 0.896             | 0.897             | 0.896               | 24.2              | 131.334                   | 0.000                    | 0.000                  | 10.2               | 344.919                     |
| Pond 2             | FEH: 30 years: +40 %: 360 mins: Winter | 48.519            | 48.518            | 48.519              | 0.869             | 0.868             | 0.869               | 24.4              | 105.316                   | 0.000                    | 0.000                  | 12.0               | 413.727                     |
| Porous Paving 1    | FEH: 30 years: +40 %: 360 mins: Winter | 54.451            | 53.681            | 53.852              | 0.181             | 0.011             | 0.182               | 5.6               | 32.749                    | 0.000                    | 0.000                  | 1.4                | 26.224                      |
| Porous Paving 4    | FEH: 30 years: +40 %: 120 mins: Summer | 54.220            | 54.031            | 54.111              | 0.134             | 0.011             | 0.091               | 1.9               | 1.691                     | 0.000                    | 0.000                  | 0.9                | 3.463                       |
| Porous Paving 5    | FEH: 30 years: +40 %: 120 mins: Summer | 54.220            | 54.037            | 54.113              | 0.134             | 0.017             | 0.093               | 4.8               | 4.456                     | 0.000                    | 0.000                  | 2.3                | 8.927                       |
| Cellular Storage 1 | FEH: 30 years: +40 %: 360 mins: Winter | 52.897            | 52.897            | 52.897              | 0.747             | 0.747             | 0.747               | 52.8              | 382.441                   | 0.000                    | 0.000                  | 5.8                | 114.788                     |
| Swale              | FEH: 30 years: +40 %: 15 mins: Summer  | 50.677            | 49.191            | 49.179              | 0.077             | 0.091             | 0.079               | 51.9              | 2.985                     | 0.000                    | 0.000                  | 45.8               | 22.443                      |

|                                                                            |                                                             |             |              |
|----------------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                                 | Date:<br>03/07/2025                                         |             |              |
|                                                                            | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



| Percentage Available (%) | Status |
|--------------------------|--------|
| 56.756                   | OK     |
| 53.921                   | OK     |
| 58.809                   | OK     |
| 37.193                   | OK     |
| 41.289                   | OK     |
| 59.540                   | OK     |
| 79.796                   | OK     |
| 79.370                   | OK     |
| 25.312                   | OK     |
| 95.393                   | OK     |

|                                                                            |  |                                                             |             |                                                                                     |              |
|----------------------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                                 |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                            |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

| Stormwater Control | Storm Event                             | Max. US Level (m) | Max. DS Level (m) | Max. Avg. Level (m) | Max. US Depth (m) | Max. DS Depth (m) | Max. Avg. Depth (m) | Max. Inflow (L/s) | Max. Resident Volume (m³) | Max. Flooded Volume (m³) | Total Lost Volume (m³) | Max. Outflow (L/s) | Total Discharge Volume (m³) |
|--------------------|-----------------------------------------|-------------------|-------------------|---------------------|-------------------|-------------------|---------------------|-------------------|---------------------------|--------------------------|------------------------|--------------------|-----------------------------|
| Porous Paving 2    | FEH: 100 years: +45 %: 360 mins: Summer | 55.021            | 54.487            | 54.715              | 0.290             | 0.017             | 0.245               | 7.3               | 23.010                    | 0.000                    | 0.000                  | 2.1                | 31.606                      |
| Porous Paving 3    | FEH: 100 years: +45 %: 480 mins: Winter | 55.097            | 54.264            | 54.518              | 0.279             | 0.009             | 0.263               | 6.6               | 49.531                    | 0.000                    | 0.000                  | 1.7                | 43.404                      |
| Porous Paving 6    | FEH: 100 years: +45 %: 360 mins: Winter | 54.035            | 53.332            | 53.555              | 0.252             | 0.012             | 0.235               | 6.8               | 38.873                    | 0.000                    | 0.000                  | 1.7                | 32.597                      |
| Pond 1             | FEH: 100 years: +45 %: 480 mins: Winter | 53.147            | 53.147            | 53.147              | 1.147             | 1.147             | 1.147               | 27.6              | 194.186                   | 0.000                    | 0.000                  | 10.1               | 495.318                     |
| Pond 2             | FEH: 100 years: +45 %: 480 mins: Winter | 48.706            | 48.706            | 48.706              | 1.056             | 1.056             | 1.056               | 25.6              | 144.396                   | 0.000                    | 0.000                  | 11.9               | 584.157                     |
| Porous Paving 1    | FEH: 100 years: +45 %: 360 mins: Winter | 54.507            | 53.683            | 53.901              | 0.237             | 0.013             | 0.231               | 7.2               | 41.551                    | 0.000                    | 0.000                  | 1.8                | 35.012                      |
| Porous Paving 4    | FEH: 100 years: +45 %: 120 mins: Summer | 54.257            | 54.033            | 54.134              | 0.170             | 0.013             | 0.114               | 2.4               | 2.112                     | 0.000                    | 0.000                  | 1.2                | 4.601                       |
| Porous Paving 5    | FEH: 100 years: +45 %: 120 mins: Summer | 54.257            | 54.040            | 54.136              | 0.170             | 0.020             | 0.116               | 6.3               | 5.553                     | 0.000                    | 0.000                  | 3.1                | 11.868                      |
| Cellular Storage 1 | FEH: 100 years: +45 %: 480 mins: Winter | 53.148            | 53.148            | 53.148              | 0.998             | 0.998             | 0.998               | 52.9              | 510.840                   | 0.000                    | 0.000                  | 5.9                | 154.891                     |
| Swale              | FEH: 100 years: +45 %: 15 mins: Summer  | 50.690            | 49.209            | 49.192              | 0.090             | 0.109             | 0.092               | 67.9              | 3.647                     | 0.000                    | 0.000                  | 60.1               | 29.370                      |

|                                                                            |                                                             |             |              |
|----------------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                                 | Date:<br>03/07/2025                                         |             |              |
|                                                                            | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Stormwater Controls Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |



| Percentage Available (%) | Status |
|--------------------------|--------|
| 45.532                   | OK     |
| 41.574                   | OK     |
| 47.830                   | OK     |
| 7.135                    | OK     |
| 19.502                   | OK     |
| 48.666                   | OK     |
| 74.766                   | OK     |
| 74.291                   | OK     |
| 0.236                    | OK     |
| 94.372                   | OK     |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                             | Connection Type | From            | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status      |
|------------|-----------------------------------------|-----------------|-----------------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|-------------|
| 3.000      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S6          | PH3-S7  | 55.050                   | 53.648                  | 0.125               | 9.483                 | 0.7                 | 0.23            | 20.9            | OK          |
| 3.001      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S7          | PH3-S8  | 55.025                   | 53.428                  | 0.150               | 19.349                | 1.1                 | 0.46            | 39.7            | OK          |
| 3.002      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S8          | PH3-S9  | 55.000                   | 53.222                  | 0.147               | 24.657                | 1.2                 | 0.29            | 47.8            | OK          |
| 8.000      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S12         | PH3-S13 | 55.100                   | 53.677                  | 0.094               | 6.599                 | 0.9                 | 0.25            | 14.7            | OK          |
| 7.000      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S10         | PH3-S11 | 55.100                   | 53.697                  | 0.088               | 6.904                 | 1.1                 | 0.35            | 15.2            | OK          |
| 4.000      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | Porous Paving 2 | PH3-S7  | 55.411                   | 54.503                  | 0.083               | 0.753                 | 0.3                 | 0.02            | 1.2             | OK          |
| 5.000      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | Porous Paving 3 | PH3-S8  | 55.498                   | 54.284                  | 0.079               | 0.561                 | 0.2                 | 0.01            | 1.0             | OK          |
| 6.000      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | Porous Paving 3 | PH3-S9  | 55.498                   | 54.284                  | 0.079               | 0.712                 | 0.2                 | 0.01            | 1.2             | OK          |
| 1.001      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S1          | PH3-S2  | 54.800                   | 53.464                  | 0.148               | 15.903                | 1.2                 | 0.81            | 34.4            | OK          |
| 1.002      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S2          | PH3-S3  | 54.775                   | 53.157                  | 0.119               | 15.866                | 1.3                 | 0.36            | 32.7            | OK          |
| 13.000     | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S19         | PH3-S20 | 53.600                   | 52.066                  | 0.053               | 3.702                 | 0.9                 | 0.03            | 8.3             | OK          |
| 1.011      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S21         | PH3-S22 | 52.825                   | 51.201                  | 0.056               | 13.266                | 1.5                 | 0.03            | 16.6            | OK          |
| 1.012      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S22         | PH3-S24 | 50.000                   | 48.411                  | 0.084               | 16.326                | 1.3                 | 0.04            | 22.5            | OK          |
| 1.003      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S3          | PH3-S4  | 54.450                   | 53.030                  | 0.094               | 19.991                | 2.1                 | 0.23            | 40.6            | OK          |
| 7.001      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S11         | PH3-S13 | 55.000                   | 53.378                  | 0.094               | 6.883                 | 0.7                 | 0.15            | 14.0            | OK          |
| 7.002      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S13         | PH3-S14 | 55.000                   | 53.185                  | 0.147               | 13.420                | 0.7                 | 0.27            | 25.5            | OK          |
| 14.000     | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S23         | PH3-S24 | 49.200                   | 47.833                  | 0.108               | 1.938                 | 0.3                 | 0.02            | 4.4             | OK          |
| 1.009      | FEH: 2 years: +0<br>%: 180 mins: Summer | Pipe            | PH3-S18         | PH3-S20 | 53.200                   | 52.344                  | 0.054               | 135.299               | 0.9                 | 0.03            | 9.8             | Surchar ged |
| 1.010      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S20         | PH3-S21 | 53.150                   | 51.516                  | 0.058               | 13.578                | 1.4                 | 0.04            | 17.4            | OK          |
| 3.003      | FEH: 2 years: +0<br>%: 15 mins: Summer  | Pipe            | PH3-S9          | PH3-S16 | 54.700                   | 52.947                  | 0.144               | 25.283                | 1.2                 | 0.27            | 45.4            | OK          |

|                                                                    |  |  |  |                                                             |             |              |                                                                                     |  |  |  |  |  |
|--------------------------------------------------------------------|--|--|--|-------------------------------------------------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|--|--|--|--|
| Trade Park Billingshurst:<br>Phase 3 Works                         |  |  |  | Date:<br>03/07/2025                                         |             |              |  |  |  |  |  |  |
|                                                                    |  |  |  | Designed by:<br>AU                                          | Checked by: | Approved By: |                                                                                     |  |  |  |  |  |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Storm |  |  |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |                                                                                     |  |  |  |  |  |

|        |                                            |      |                       |                       |        |        |       |         |     |      |       |                |
|--------|--------------------------------------------|------|-----------------------|-----------------------|--------|--------|-------|---------|-----|------|-------|----------------|
| 1.000  | FEH: 2 years: +0<br>%: 30 mins:<br>Summer  | Pipe | Porous<br>Paving 1    | PH3-S1                | 54.950 | 53.704 | 0.069 | 0.522   | 0.3 | 0.01 | 0.6   | OK             |
| 11.000 | FEH: 2 years: +0<br>%: 30 mins:<br>Summer  | Pipe | Porous<br>Paving 5    | PH3-S16               | 54.767 | 54.047 | 0.067 | 0.950   | 0.5 | 0.01 | 0.8   | OK             |
| 7.003  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-S14               | PH3-S15               | 54.500 | 53.135 | 0.179 | 23.629  | 1.1 | 0.53 | 47.2  | OK             |
| 7.004  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-S15               | PH3-S16               | 54.550 | 53.073 | 0.157 | 26.405  | 1.4 | 0.56 | 50.7  | OK             |
| 9.000  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | Porous<br>Paving 4    | PH3-S15               | 54.767 | 54.042 | 0.090 | 0.235   | 0.1 | 0.01 | 0.4   | OK             |
| 10.000 | FEH: 2 years: +0<br>%: 30 mins:<br>Summer  | Pipe | Porous<br>Paving 6    | PH3-S15               | 54.463 | 53.355 | 0.079 | 0.580   | 0.2 | 0.01 | 0.6   | OK             |
| 1.004  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-S4                | Cellular<br>Storage 1 | 53.925 | 52.509 | 0.050 | 19.986  | 5.2 | 0.1  | 40.0  | OK             |
| 2.000  | FEH: 2 years: +0<br>%: 30 mins:<br>Summer  | Pipe | Porous<br>Paving 1    | PH3-S3                | 54.950 | 53.704 | 0.051 | 1.026   | 0.3 | 0.02 | 1.1   | OK             |
| 1.008  | FEH: 2 years: +0<br>%: 240 mins:<br>Winter | Pipe | Pond 1                | PH3-S18               | 53.500 | 52.350 | 0.450 | 179.280 | 0.2 | 0.01 | 11.0  | OK             |
| 15.001 | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-S25               | Pond 2                | 49.700 | 48.428 | 0.100 | 7.115   | 1.3 | 0.12 | 13.6  | OK             |
| 1.013  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-S24               | Pond 2                | 49.350 | 47.833 | 0.157 | 17.447  | 1.1 | 0.05 | 25.1  | OK             |
| 1.014  | FEH: 2 years: +0<br>%: 15 mins:<br>Winter  | Pipe | Pond 2                | PH3-S26               | 49.150 | 47.832 | 0.507 | 11.709  | 0.3 | 0.01 | 23.4  | OK             |
| 1.005  | FEH: 2 years: +0<br>%: 30 mins:<br>Winter  | Pipe | Cellular<br>Storage 1 | PH3-S5                | 53.150 | 52.267 | 0.134 | 0.000   | 0.2 | 0.03 | 7.0   | OK             |
| 15.000 | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | Swale                 | PH3-S25               | 51.500 | 49.141 | 0.050 | 7.108   | 2.1 | 0.09 | 13.9  | OK             |
| 1.015  | FEH: 2 years: +0<br>%: 30 mins:<br>Summer  | Pipe | PH3-S26               | PH3-S27               | 48.800 | 47.882 | 0.064 | 22.599  | 1.2 | 0.21 | 11.4  | Surchar<br>ged |
| 1.016  | FEH: 2 years: +0<br>%: 960 mins:<br>Summer | Pipe | PH3-S27               | Ex-<br>SWMH54         | 48.350 | 46.905 | 0.055 | 430.435 | 1.5 | 0.13 | 11.4  | OK             |
| 1.006  | FEH: 2 years: +0<br>%: 30 mins:<br>Winter  | Pipe | PH3-S5                | PH3-17                | 54.200 | 52.312 | 0.225 | 0.000   | 0.1 | 0.03 | 7.0   | OK             |
| 1.007  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-17                | Pond 1                | 54.000 | 52.317 | 0.280 | 36.552  | 1.6 | 0.43 | 89.3  | OK             |
| 12.000 | FEH: 2 years: +0<br>%: 30 mins:<br>Summer  | Pipe | Porous<br>Paving 6    | PH3-17                | 54.463 | 53.355 | 0.138 | 0.867   | 0.1 | 0.01 | 1.0   | OK             |
| 3.004  | FEH: 2 years: +0<br>%: 15 mins:<br>Summer  | Pipe | PH3-S16               | PH3-17                | 54.400 | 52.841 | 0.173 | 56.905  | 2.1 | 0.26 | 104.1 | OK             |

|                                                                    |  |                                                             |             |                                                                                     |              |
|--------------------------------------------------------------------|--|-------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         |  | Date:<br>03/07/2025                                         |             |  |              |
|                                                                    |  | Designed by:<br>AU                                          | Checked by: |                                                                                     | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Storm |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |                                                                                     |              |



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                                  | Connection Type | From            | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status      |
|------------|----------------------------------------------|-----------------|-----------------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|-------------|
| 3.000      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S6          | PH3-S7  | 55.050                   | 54.064                  | 0.300               | 29.849                | 0.9                 | 0.67            | 60.4            | Surchar ged |
| 3.001      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S7          | PH3-S8  | 55.025                   | 53.905                  | 0.300               | 61.130                | 1.8                 | 1.44            | 124.3           | Surchar ged |
| 3.002      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S8          | PH3-S9  | 55.000                   | 53.408                  | 0.339               | 77.906                | 1.4                 | 0.92            | 150.9           | OK          |
| 8.000      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S12         | PH3-S13 | 55.100                   | 54.089                  | 0.225               | 20.633                | 1.0                 | 0.67            | 38.7            | Surchar ged |
| 7.000      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S10         | PH3-S11 | 55.100                   | 54.155                  | 0.225               | 21.594                | 1.0                 | 0.96            | 41.5            | Surchar ged |
| 4.000      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | Porous Paving 2 | PH3-S7  | 55.411                   | 54.572                  | 0.150               | 2.590                 | 0.5                 | 0.07            | 4.8             | OK          |
| 5.000      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | Porous Paving 3 | PH3-S8  | 55.498                   | 54.344                  | 0.150               | 1.851                 | 0.2                 | 0.05            | 3.7             | OK          |
| 6.000      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | Porous Paving 3 | PH3-S9  | 55.498                   | 54.344                  | 0.150               | 2.339                 | 0.3                 | 0.05            | 4.6             | OK          |
| 1.001      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S1          | PH3-S2  | 54.800                   | 54.281                  | 0.225               | 42.918                | 2.0                 | 1.86            | 79.0            | Surchar ged |
| 1.002      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S2          | PH3-S3  | 54.775                   | 53.267                  | 0.228               | 42.882                | 1.4                 | 0.84            | 77.4            | OK          |
| 13.000     | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S19         | PH3-S20 | 53.600                   | 52.096                  | 0.089               | 11.641                | 1.3                 | 0.08            | 26.4            | OK          |
| 1.011      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S21         | PH3-S22 | 52.825                   | 51.230                  | 0.091               | 26.848                | 1.8                 | 0.07            | 41.9            | OK          |
| 1.012      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S22         | PH3-S24 | 50.000                   | 48.452                  | 0.245               | 37.086                | 1.4                 | 0.11            | 63.2            | OK          |
| 1.003      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S3          | PH3-S4  | 54.450                   | 53.140                  | 0.189               | 63.287                | 2.7                 | 0.71            | 126.5           | OK          |
| 7.001      | FEH: 30 years:<br>+40 %: 30 mins:<br>Summer  | Pipe            | PH3-S11         | PH3-S13 | 55.000                   | 53.638                  | 0.300               | 28.772                | 0.6                 | 0.35            | 32.8            | Surchar ged |
| 7.002      | FEH: 30 years:<br>+40 %: 30 mins:<br>Summer  | Pipe            | PH3-S13         | PH3-S14 | 55.000                   | 53.605                  | 0.300               | 56.202                | 0.9                 | 0.69            | 63.8            | Surchar ged |
| 14.000     | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S23         | PH3-S24 | 49.200                   | 48.151                  | 0.426               | 5.515                 | 0.4                 | 0.05            | 13.3            | OK          |
| 1.009      | FEH: 30 years:<br>+40 %: 180 mins:<br>Summer | Pipe            | PH3-S18         | PH3-S20 | 53.200                   | 52.855                  | 0.060               | 169.692               | 0.9                 | 0.03            | 9.8             | Surchar ged |
| 1.010      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S20         | PH3-S21 | 53.150                   | 51.556                  | 0.093               | 27.209                | 1.8                 | 0.11            | 43.9            | OK          |
| 3.003      | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer  | Pipe            | PH3-S9          | PH3-S16 | 54.700                   | 53.145                  | 0.328               | 80.221                | 1.5                 | 0.85            | 145.6           | OK          |

|                                                                    |  |  |  |                                                             |  |             |  |                                                                                     |  |  |  |
|--------------------------------------------------------------------|--|--|--|-------------------------------------------------------------|--|-------------|--|-------------------------------------------------------------------------------------|--|--|--|
| Trade Park Billingshurst:<br>Phase 3 Works                         |  |  |  | Date:<br>03/07/2025                                         |  |             |  |  |  |  |  |
|                                                                    |  |  |  | Designed by:<br>AU                                          |  | Checked by: |  |                                                                                     |  |  |  |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Storm |  |  |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |  |             |  |                                                                                     |  |  |  |

|        |                                               |      |                       |                       |        |        |       |          |     |      |       |                |
|--------|-----------------------------------------------|------|-----------------------|-----------------------|--------|--------|-------|----------|-----|------|-------|----------------|
| 1.000  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Porous<br>Paving 1    | PH3-S1                | 54.950 | 53.752 | 0.150 | 0.010    | 0.3 | 0.06 | 2.3   | OK             |
| 11.000 | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Porous<br>Paving 5    | PH3-S16               | 54.767 | 54.085 | 0.150 | 2.130    | 0.7 | 0.05 | 3.4   | OK             |
| 7.003  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-S14               | PH3-S15               | 54.500 | 53.722 | 0.300 | 74.491   | 1.9 | 1.47 | 131.5 | Surchar<br>ged |
| 7.004  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-S15               | PH3-S16               | 54.550 | 53.525 | 0.300 | 78.897   | 1.9 | 1.47 | 131.7 | Surchar<br>ged |
| 9.000  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Porous<br>Paving 4    | PH3-S15               | 54.767 | 54.084 | 0.150 | 0.846    | 0.3 | 0.02 | 1.4   | OK             |
| 10.000 | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Porous<br>Paving 6    | PH3-S15               | 54.463 | 53.403 | 0.150 | 0.014    | 0.2 | 0.06 | 2.7   | OK             |
| 1.004  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-S4                | Cellular<br>Storage 1 | 53.925 | 52.589 | 0.201 | 63.103   | 5.3 | 0.3  | 125.1 | OK             |
| 2.000  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Porous<br>Paving 1    | PH3-S3                | 54.950 | 53.752 | 0.141 | 9.604    | 1.6 | 0.37 | 26.8  | OK             |
| 1.008  | FEH: 30 years:<br>+40 %: 60 mins:<br>Winter   | Pipe | Pond 1                | PH3-S18               | 53.500 | 52.712 | 0.450 | 54.428   | 0.3 | 0.02 | 20.1  | Surchar<br>ged |
| 15.001 | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-S25               | Pond 2                | 49.700 | 48.476 | 0.225 | 22.371   | 1.4 | 0.41 | 45.1  | OK             |
| 1.013  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-S24               | Pond 2                | 49.350 | 48.151 | 0.476 | 39.021   | 1.0 | 0.13 | 69.8  | OK             |
| 1.014  | FEH: 30 years:<br>+40 %: 30 mins:<br>Winter   | Pipe | Pond 2                | PH3-S26               | 49.150 | 48.269 | 0.525 | 31.385   | 0.2 | 0.01 | 23.3  | Surchar<br>ged |
| 1.005  | FEH: 30 years:<br>+40 %: 15 mins:<br>Winter   | Pipe | Cellular<br>Storage 1 | PH3-S5                | 53.150 | 52.488 | 0.351 | 0.000    | 0.1 | 0.03 | 8.5   | OK             |
| 15.000 | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Swale                 | PH3-S25               | 51.500 | 49.179 | 0.096 | 22.443   | 2.8 | 0.29 | 45.8  | OK             |
| 1.015  | FEH: 30 years:<br>+40 %: 360 mins:<br>Winter  | Pipe | PH3-S26               | PH3-S27               | 48.800 | 48.518 | 0.065 | 411.110  | 1.2 | 0.21 | 11.4  | Surchar<br>ged |
| 1.016  | FEH: 30 years:<br>+40 %: 1440<br>mins: Summer | Pipe | PH3-S27               | Ex-<br>SWMH54         | 48.350 | 46.905 | 0.055 | 1195.995 | 1.5 | 0.13 | 11.4  | OK             |
| 1.006  | FEH: 30 years:<br>+40 %: 15 mins:<br>Winter   | Pipe | PH3-S5                | PH3-17                | 54.200 | 52.510 | 0.450 | 0.000    | 0.1 | 0.03 | 8.5   | OK             |
| 1.007  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-17                | Pond 1                | 54.000 | 52.614 | 0.450 | 83.543   | 1.6 | 1.02 | 213.0 | Surchar<br>ged |
| 12.000 | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | Porous<br>Paving 6    | PH3-17                | 54.463 | 53.403 | 0.150 | 6.722    | 0.6 | 0.14 | 10.3  | OK             |
| 3.004  | FEH: 30 years:<br>+40 %: 15 mins:<br>Summer   | Pipe | PH3-S16               | PH3-17                | 54.400 | 53.012 | 0.375 | 175.631  | 2.8 | 0.78 | 313.2 | OK             |

|                                                                    |                                                             |             |              |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------|--------------|
| Trade Park Billingshurst:<br>Phase 3 Works                         | Date:<br>03/07/2025                                         |             |              |
|                                                                    | Designed by:<br>AU                                          | Checked by: | Approved By: |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Storm | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |





FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

| Connection | Storm Event                                   | Connection Type | From            | To      | Upstream Cover Level (m) | Max. US Water Level (m) | Max. Flow Depth (m) | Discharge Volume (m³) | Max. Velocity (m/s) | Flow / Capacity | Max. Flow (L/s) | Status      |
|------------|-----------------------------------------------|-----------------|-----------------|---------|--------------------------|-------------------------|---------------------|-----------------------|---------------------|-----------------|-----------------|-------------|
| 3.000      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S6          | PH3-S7  | 55.050                   | 54.895                  | 0.300               | 39.052                | 1.1                 | 0.87            | 78.3            | Surchar ged |
| 3.001      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S7          | PH3-S8  | 55.025                   | 54.630                  | 0.300               | 80.035                | 2.1                 | 1.68            | 145.8           | Surchar ged |
| 3.002      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S8          | PH3-S9  | 55.000                   | 54.008                  | 0.375               | 101.976               | 1.7                 | 1.13            | 185.2           | Surchar ged |
| 8.000      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S12         | PH3-S13 | 55.100                   | 54.819                  | 0.225               | 27.026                | 1.3                 | 0.86            | 49.8            | Surchar ged |
| 7.000      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S10         | PH3-S11 | 55.100                   | 54.914                  | 0.225               | 28.261                | 1.3                 | 1.2             | 52.3            | Surchar ged |
| 4.000      | FEH: 100 years:<br>+45 %: 30 mins:<br>Summer  | Pipe            | Porous Paving 2 | PH3-S7  | 55.411                   | 54.644                  | 0.150               | 5.624                 | 0.7                 | 0.08            | 5.2             | Surchar ged |
| 5.000      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | Porous Paving 3 | PH3-S8  | 55.498                   | 54.371                  | 0.150               | 2.442                 | 0.3                 | 0.06            | 4.9             | OK          |
| 6.000      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | Porous Paving 3 | PH3-S9  | 55.498                   | 54.371                  | 0.150               | 3.085                 | 0.4                 | 0.06            | 6.2             | OK          |
| 1.001      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S1          | PH3-S2  | 54.800                   | 54.781                  | 0.225               | 52.285                | 2.4                 | 2.25            | 95.5            | Surchar ged |
| 1.002      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S2          | PH3-S3  | 54.775                   | 53.356                  | 0.300               | 52.238                | 1.4                 | 1               | 91.4            | Surchar ged |
| 13.000     | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S19         | PH3-S20 | 53.600                   | 52.106                  | 0.101               | 15.222                | 1.4                 | 0.1             | 34.6            | OK          |
| 1.011      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S21         | PH3-S22 | 52.825                   | 51.240                  | 0.103               | 32.674                | 1.9                 | 0.09            | 53.4            | OK          |
| 1.012      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S22         | PH3-S24 | 50.000                   | 48.466                  | 0.305               | 46.129                | 1.3                 | 0.15            | 81.2            | OK          |
| 1.003      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S3          | PH3-S4  | 54.450                   | 53.209                  | 0.242               | 82.843                | 2.7                 | 0.93            | 165.7           | OK          |
| 7.001      | FEH: 100 years:<br>+45 %: 30 mins:<br>Summer  | Pipe            | PH3-S11         | PH3-S13 | 55.000                   | 54.226                  | 0.300               | 38.051                | 0.7                 | 0.46            | 42.3            | Surchar ged |
| 7.002      | FEH: 100 years:<br>+45 %: 30 mins:<br>Summer  | Pipe            | PH3-S13         | PH3-S14 | 55.000                   | 54.172                  | 0.300               | 74.289                | 1.2                 | 0.89            | 82.6            | Surchar ged |
| 14.000     | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S23         | PH3-S24 | 49.200                   | 48.269                  | 0.450               | 7.359                 | 0.4                 | 0.07            | 16.2            | Surchar ged |
| 1.009      | FEH: 100 years:<br>+45 %: 480 mins:<br>Winter | Pipe            | PH3-S18         | PH3-S20 | 53.200                   | 53.147                  | 0.056               | 492.992               | 0.9                 | 0.03            | 9.8             | Surchar ged |
| 1.010      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S20         | PH3-S21 | 53.150                   | 51.571                  | 0.105               | 33.053                | 2.0                 | 0.13            | 55.8            | OK          |
| 3.003      | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe            | PH3-S9          | PH3-S16 | 54.700                   | 53.583                  | 0.375               | 105.094               | 1.6                 | 1.06            | 181.2           | Surchar ged |

|                                                                    |  |  |  |                                                             |             |              |                                                                                     |  |  |  |  |  |
|--------------------------------------------------------------------|--|--|--|-------------------------------------------------------------|-------------|--------------|-------------------------------------------------------------------------------------|--|--|--|--|--|
| Trade Park Billingshurst:<br>Phase 3 Works                         |  |  |  | Date:<br>03/07/2025                                         |             |              |  |  |  |  |  |  |
|                                                                    |  |  |  | Designed by:<br>AU                                          | Checked by: | Approved By: |                                                                                     |  |  |  |  |  |
| Report Details:<br>Type: Connections Summary<br>Storm Phase: Storm |  |  |  | Company Address:<br>84 North Street<br>Guildford<br>GU1 4AU |             |              |                                                                                     |  |  |  |  |  |

|        |                                               |      |                       |                       |        |        |       |         |     |      |       |                |
|--------|-----------------------------------------------|------|-----------------------|-----------------------|--------|--------|-------|---------|-----|------|-------|----------------|
| 1.000  | FEH: 100 years:<br>+45 %: 15 mins:<br>Winter  | Pipe | Porous<br>Paving 1    | PH3-S1                | 54.950 | 53.777 | 0.150 | 0.022   | 0.3 | 0.12 | 4.4   | OK             |
| 11.000 | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | Porous<br>Paving 5    | PH3-S16               | 54.767 | 54.104 | 0.150 | 2.923   | 0.8 | 0.07 | 4.6   | OK             |
| 7.003  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-S14               | PH3-S15               | 54.500 | 54.301 | 0.300 | 97.554  | 2.3 | 1.86 | 165.5 | Surchar<br>ged |
| 7.004  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-S15               | PH3-S16               | 54.550 | 54.009 | 0.300 | 96.405  | 2.1 | 1.62 | 145.5 | Surchar<br>ged |
| 9.000  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | Porous<br>Paving 4    | PH3-S15               | 54.767 | 54.103 | 0.150 | 1.144   | 0.4 | 0.03 | 1.9   | OK             |
| 10.000 | FEH: 100 years:<br>+45 %: 60 mins:<br>Summer  | Pipe | Porous<br>Paving 6    | PH3-S15               | 54.463 | 53.500 | 0.150 | 0.841   | 0.3 | 0.08 | 3.9   | Surchar<br>ged |
| 1.004  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-S4                | Cellular<br>Storage 1 | 53.925 | 52.624 | 0.300 | 82.205  | 5.6 | 0.4  | 164.3 | OK             |
| 2.000  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | Porous<br>Paving 1    | PH3-S3                | 54.950 | 53.777 | 0.150 | 16.456  | 2.6 | 0.63 | 45.8  | OK             |
| 1.008  | FEH: 100 years:<br>+45 %: 120 mins:<br>Summer | Pipe | Pond 1                | PH3-S18               | 53.500 | 53.011 | 0.450 | 121.227 | 0.3 | 0.01 | 15.6  | Surchar<br>ged |
| 15.001 | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-S25               | Pond 2                | 49.700 | 48.493 | 0.225 | 29.277  | 1.6 | 0.54 | 59.7  | OK             |
| 1.013  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-S24               | Pond 2                | 49.350 | 48.269 | 0.525 | 49.334  | 1.0 | 0.16 | 86.1  | Surchar<br>ged |
| 1.014  | FEH: 100 years:<br>+45 %: 120 mins:<br>Summer | Pipe | Pond 2                | PH3-S26               | 49.150 | 48.613 | 0.525 | 143.635 | 0.7 | 0.01 | 12.6  | Surchar<br>ged |
| 1.005  | FEH: 100 years:<br>+45 %: 15 mins:<br>Winter  | Pipe | Cellular<br>Storage 1 | PH3-S5                | 53.150 | 52.599 | 0.450 | 0.000   | 0.0 | 0.03 | 7.6   | OK             |
| 15.000 | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | Swale                 | PH3-S25               | 51.500 | 49.192 | 0.113 | 29.370  | 3.0 | 0.38 | 60.1  | OK             |
| 1.015  | FEH: 100 years:<br>+45 %: 720 mins:<br>Winter | Pipe | PH3-S26               | PH3-S27               | 48.800 | 48.677 | 0.065 | 868.404 | 1.2 | 0.21 | 11.4  | Surchar<br>ged |
| 1.016  | FEH: 100 years:<br>+45 %: 720 mins:<br>Winter | Pipe | PH3-S27               | Ex-<br>SWMH54         | 48.350 | 46.905 | 0.055 | 868.185 | 1.5 | 0.13 | 11.4  | OK             |
| 1.006  | FEH: 100 years:<br>+45 %: 15 mins:<br>Winter  | Pipe | PH3-S5                | PH3-17                | 54.200 | 52.604 | 0.450 | 0.000   | 0.0 | 0.03 | 7.6   | Surchar<br>ged |
| 1.007  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-17                | Pond 1                | 54.000 | 52.709 | 0.450 | 99.934  | 1.7 | 1.12 | 234.5 | Surchar<br>ged |
| 12.000 | FEH: 100 years:<br>+45 %: 30 mins:<br>Summer  | Pipe | Porous<br>Paving 6    | PH3-17                | 54.463 | 53.464 | 0.150 | 16.458  | 1.9 | 0.47 | 34.3  | OK             |
| 3.004  | FEH: 100 years:<br>+45 %: 15 mins:<br>Summer  | Pipe | PH3-S16               | PH3-17                | 54.400 | 53.401 | 0.375 | 223.292 | 3.3 | 0.91 | 366.5 | Surchar<br>ged |

## Appendix L

### Exceedance Plan

## Notes

1. Proposed levels taken from PTA Preliminary Levels Strategy drawing 9950-PTA-XX-XX-DR-C-SK05

Legend

Phase 3 Boundary (Access Road)

 Exceedance Flow Direction Arrow

|      |             |     |     |     |            |
|------|-------------|-----|-----|-----|------------|
| P01  | First Issue | AU  | AU  | NJ  | 03/03/2026 |
| Rev. | Description | Drn | Chk | App | Date       |

Drawing Status:

FOR PLANNING  
NOT FOR CONSTRUCTION



Guildford - Reading - London  
**www.motion.co.uk**

**Client:**

DUNMOORE 

Project:  
Trade Park Billingshurst  
Stane Street, Billingshurst

Title:  
Phase 3 Works - Access Road  
Exceedance Flows Plan

Scale: 1:500 (@ A1)

Drawing:  
1904029-P3-0510

Revision  
P01