



Flood Emergency and Evacuation Plan



AEG0948_RH10_Turners Hill_01_Land
on the South-East Side of Wallage
Lane

Site Address: Land on the South-East Side of Wallage Lane,
Worth,
Crawley

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



Document Issue Record

Project: Flood Emergency and Evacuation Plan

Prepared for: Resident/ Landowner

Reference: AEG0948_RH10_Turners Hill_01_Land on the South-East Side of Wallage Lane

Site Location: Land on the South-East Side of Wallage Lane, Worth, Crawley

Issue	Date	Author	Check	Auth.	Comments
1	29/04/2026	Mace Latham	JC	NDD	First issue

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1. Introduction

Site Overview

- 1.1. The address of the site is the Land on the South-East Side of Wallage Lane, Worth, Crawley (Figure 1).

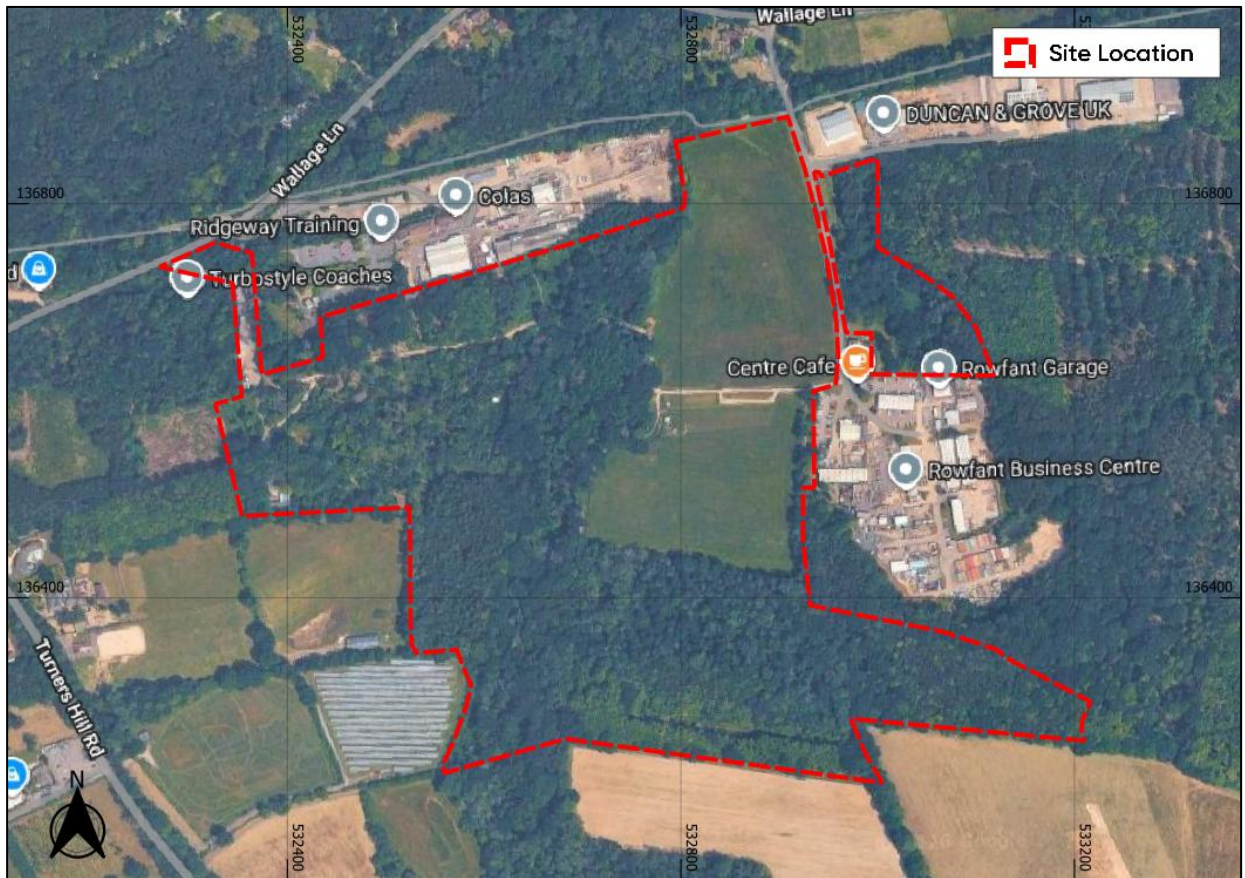


Figure 1: Site Location (Base map from Google Hybrid).

- 1.2. This Flood Emergency / Evacuation Plan (FEEP) has been prepared following the approval of planning permission being granted for three fishing lakes for leisure use on land at Tulleys Farm (Mid Sussex District Council planning ref: DM/21/2136). The permission was varied under DM/25/0858 to enable the construction of the access road ahead of the wider works.
- 1.3. Condition 2 (revised wording under DM/25/0858) states:

2. No development hereby permitted, except for the works to form the revised means of access on to Turners Hill Road for construction works and the associated haul

route, shall commence unless and until details of the Flood Emergency and Evacuation Plan have been submitted to and approved in writing by the local planning authority in conjunction with West Sussex Lead Local Flood Authority. The Flood Emergency and Evacuation Plan shall follow the format set out within the Flood Emergency and Evacuation Plan Framework submitted as part of the planning [application] and cover the lifespan of the development and needs to follow the best practice guidance set out in ADEPT and EA (2019) flood risk emergency plans for new development. In addition, the Flood Emergency and Evacuation Plan shall include evidence of engagement with stakeholders, including the results thereof.

The development shall not be brought into use until all elements of the approved Flood Emergency and Evacuation Plan have been brought into effect. The Flood Emergency and Evacuation Plan shall be reviewed annually (or as agreed as part of the Plan) by individuals with the relevant knowledge, skill, and experience and is to remain in effect for the lifetime of the development.

Reason: To ensure that the development is safe and emergency measures are in place for the lifetime of the development and to comply with policy DP41 of the Mid Sussex District Plan (2014 - 2031)

- 1.4. As such, this FEEP has been produced to address the requirements of Condition 2; and is informed by detailed breach modelling carried out by Aegaea.
- 1.5. A breach event should be mitigated through appropriate design, maintenance, and monitoring that will be undertaken at the lakes. Notwithstanding this, best practice recommends the production of a FEEP, and this has been prepared on this basis.

2. Flood Risk Summary

What is the risk and who is at risk?

- 2.1. Detailed flood modelling has been prepared to show what would occur in the 'residual risk' event of a breach at one or more of the proposed fishing lakes. The modelled effect that a breach would have to Land on the South-East Side of Wallage Lane, Worth, Crawley has been further discussed below.

What does the breach modelling show for my land?

- 2.2. Based on the detailed flood modelling conducted by Aegaea, the site is affected by a maximum breach flood extent that is presented in Figure 2.



Figure 2: Maximum Modelled Flood Extent (Base map from Google Hybrid and data from Aegaea Modelled Breach Outputs)

What are the flood depths?

- 2.3. Based on the modelled depth mapping, the maximum flood depths at the site are restricted to the central areas of the site associated with the lower areas at the watercourses/ ditches with maximum flood depths being recorded in the centre of the northern half of the site (1.31m).
- 2.4. The majority of the woodland including buildings to the west of the watercourse are outside of the flood depth and extent mapping.
- 2.5. It is noted that within the southern part of the site, there is an educational facility. The educational facility could experience flood depths up to 0.27m.
- 2.6. The flood depth mapping shows a different outline to the previous extent mapping due to it filtering out depths below 0.01m, which are considered negligible.

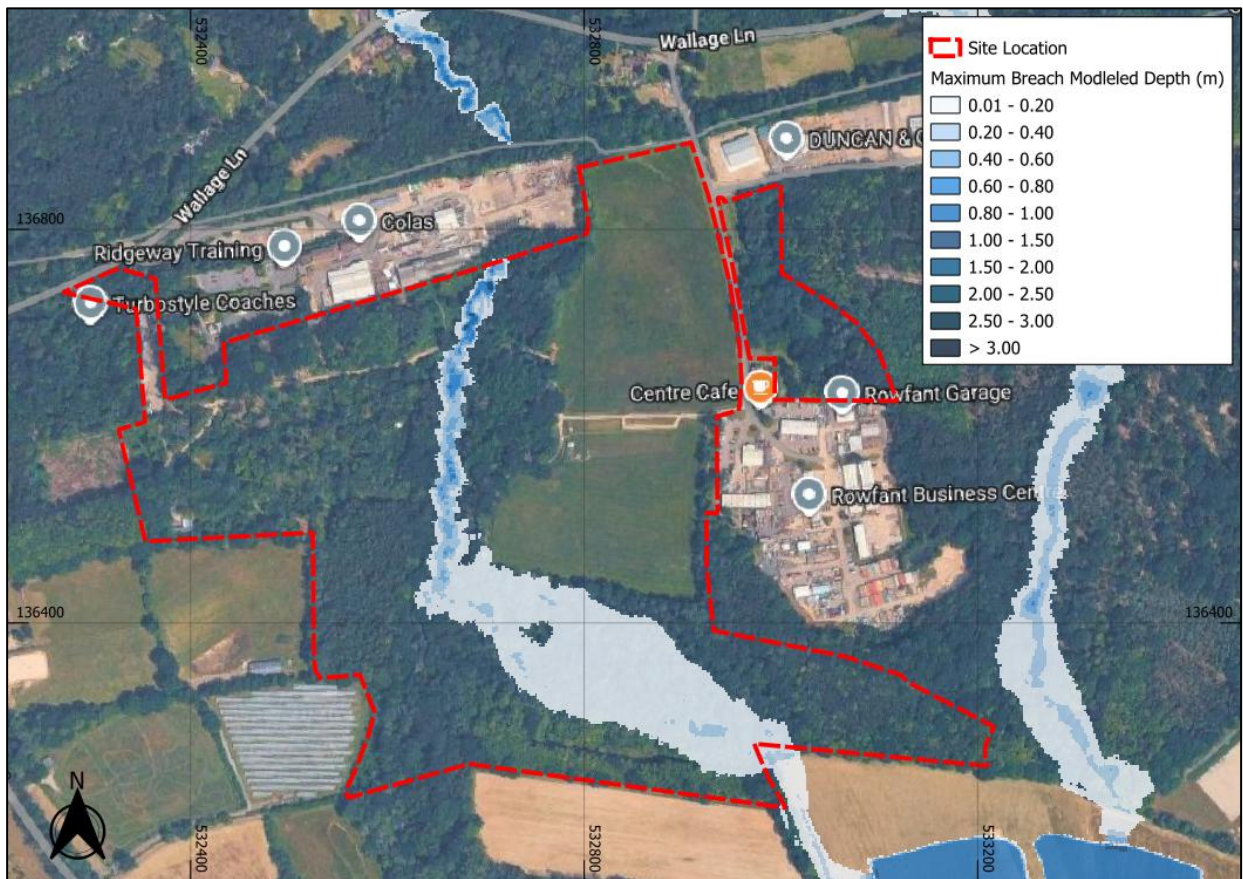


Figure 3: Maximum Modelled Flood Depth (Base map from Google Hybrid and data from Aegaea Modelled Breach Outputs)

How long will it take for flooding to reach my land?

- 2.7. The detailed modelling also shows the time it would take for the flood water from the breached lakes to reach the site. Based on this information it would take approximately 35mins for the water to arrive at the site, following the breach first occurring.

3. Flood Emergency/Evacuation Plan (FEEP)

What Flood Warnings will be made available and how will they be triggered?

- 3.1. As part of the construction of the fishing lakes, water level sensors will be installed to detect a rapid drop in water levels. The system will be conveyed to the at-risk properties through texts/phone calls, where such contact details have been provided to Tulleys by the landowner.

Responsibilities – who is responsible for maintaining the lakes and the warning systems?

- 3.2. It is the responsibility of Tulleys Farm to maintain and monitor the lakes and to convey a notification of breach to the at-risk properties in the scenario where a rapid drop occurs.
- 3.3. It is the responsibility of the land owner and management staff of the educational facility to communicate this FEEP to occupants and potential visitors.
- 3.4. It is the responsibility of the individual site users to make the FEEP procedures available and communicated to potential site users where appropriate. Where properties are rented, the owners should ensure the occupants have access/ means to receive the aforementioned notification of a breach – for example, Tulleys should also have tenant contact phone numbers, provided by the property owners.
- 3.5. It is the responsibility of the individual occupants to implement the FEEP at the trigger event of receiving a notification of a breach.

Preparation for Flood Events

- 3.6. Based on the modelled flood data, the woodland areas to the west of the watercourse are outside the residual risk flood extents with the educational facility being affected in the residual risk flood extents and depths. Therefore, evacuation of the educational facility situated to the south of the site is considered necessary and required if flooding were to occur at the site.
- 3.7. In line with EA ADEPT advice, guidance of how to prepare for a flood event has been outlined below if required.

3.8. There are a multitude of ways that an occupant can prepare for the potential of a flood event. These are set out as follows:

- Important documents (such as passports and insurance certificates) can be placed into sealable polythene bags to protect them from flood water or can be placed in a high and secure location.
- Ensure that the insurance policy for the property covers for flood damage.
- Identify who can assist during a flood event – neighbours that can help you store work equipment and stay somewhere safe when flooding is imminent. Similarly, you can look out for neighbours who may need help themselves during a flood event.
- If there are cars within the site, identify somewhere safe they can be moved prior to a flood event. Do not attempt to move your car if it is already in flood water. It is recommended that cars should be parked outside of the Breach extents.

3.9. In addition, it is advised you prepare a flood kit which can be quickly accessed when flooding is imminent to equip you with everything you may need. You should consider the following:

- Important documents such as insurance certificates – if these cannot be safely stored within the property it would be advised to take them with you as they are expensive to replace.
- Bottled Water – Water from the tap could become contaminated during a flood so bottled water should be available.
- First Aid Kit – Keep a first aid kit to hand in case of minor injuries. Put any prescription medication in your kit so that you can have easy access to it.
- Mobile Phone – Keep a fully charged mobile with you so that you can contact people in an emergency or call for help. If the phone has internet access, you can use it to monitor the local news and latest flood situation.
- Waterproof Clothing – Keep wellies and rubber gloves available should you need to enter the flood water.

3.10. In the event of a flood, you may not be able to find these essential items, so it is important to prepare in advance. Completing an individual flood plan (using the information provided within this document) will assist in helping you decide what practical actions to take before and during a flood which will help reduce the damage flooding could cause).

What to do to prepare/ during flooding

- 3.11. This FEEP should be communicated to and provided to all occupants of the site. The summary (Section 4) should be displayed in communal areas within the site where appropriate and also distributed to occupants through deeds/ rental agreements/ hard copy leaflet drop. All staff should be trained in these procedures and refreshed frequently.
- 3.12. The main priority during a flooding event is the safety of all site users and residents. As such a key part of protecting everyone is making sure that you are fully aware of the ongoing situation and know where to access the most up to date information. Below is a list of advised actions that could be taken during a flood event (if applicable). **These are considered essential given the modelled flood data shows that the educational facility could be affected in the residual risk flood extents.** They are included here for completeness and reflect the relevant best practice guidance for FEEPs:
- Where possible, switch off all electrical and gas appliances at the mains.
 - Monitor local press, radio, and regional TV.
 - Pay close attention to the advice given by emergency services and local authority. Take the notification of breach seriously and respond quickly.
 - Do not drive through flood water. Less than two feet of flood water can be enough to float a vehicle.
 - Avoid contact with flood water when possible. Flood water is typically contaminated with sewage and other hazardous substance. Wear rubber gloves and boots, and wash thoroughly if you do come into contact with flood water. Do not attempt to swim through flood water.
 - Do not enter a property that has been flooded unless you are sure it is structurally safe. If in doubt, have the property checked by a professional.
 - Do not turn on your electrical or gas supplies until they have been checked by a professionally qualified electrician or engineer. Take care of gas leaks – do not smoke or use open flames.
 - Do not use petrol or diesel generators indoors as they produce carbon monoxide.

- 3.13. Based on the modelled flood data, the majority of the buildings on-site are outside the residual risk flood extents with the educational facility being affected in the residual risk flood extents and depths. Therefore, evacuation of the educational facility situated to the south of the site is considered necessary and required if flooding were to occur at the site.
- 3.14. Furthermore, as per the previously discussed modelling, flooding is not expected to occur instantaneously, and it should take approximately **35mins** for water to arrive at the south of the site. This is expected to give sufficient time for occupants to prepare if required.
- 3.15. The evacuation route shown in the following section should be used as a guide. If flooding has occurred in the surrounding area alternative routes may be more appropriate.

Proposed Flood Evacuation Route (where appropriate/required) or Emergency Procedures

- 3.16. The requirements for safe access and egress in flood risk areas are as follows, in decreasing order of preference:
- Safe dry route for people and vehicles;
 - Safe dry route for people;
 - If a dry route for people is not possible, a route for people where the flood hazard (in terms of depth and velocity of flooding) is low and should not cause a risk to people; then,
 - If a dry route for vehicles is not possible, a route for vehicles where the flood hazard (in terms of depth and velocity of flooding) is low to permit access for emergency vehicles. However, the public should not drive vehicles in floodwater.
- 3.17. Where a dry route is not possible and a route with low flood hazard is identified, the route should not have any service covers that could be removed, or other underwater hazards. It is often difficult to see underwater hazards even in shallow water, particularly at night or if the water is silty.

Safe Refuge and Access/Egress

- 3.18. As per the outputs of the modelling previously discussed, **the educational facility on-site is affected within the flood depth and extent mapping. The remaining woodland areas on-site are outside the flood extent and depths.**

- 3.19. Therefore, evacuation is considered to be necessary for the education facility to the south given safe refuge may not be available on site. However, for the remaining woodland areas on site, evacuation is not considered necessary and refuge can be sought on-site to the west of the watercourse.
- 3.20. The fastest, safest route out of the area for the occupants of the educational facility, that is least affected by floodwater, is to travel generally in a north direction from the site. The route travels along a private footpath situated parallel to the eastern redline boundary, and remains dry throughout the whole breach event, meaning dry access/egress is considered to be achievable if the occupant wanted to leave the site (as shown on Figure 4). Pupils and staff may have to travel through areas identified as having a hazard rating of less than 0.75 – which is considered ‘safe’ in line with the EA Hazard Classification Table (FD2320).
- 3.21. The evacuation route meets Rowfant Business Centre which provides safe refuge for pupils and staff outside of the flood extent.
- 3.22. If potential site users of the west areas of the site wish to evacuate, the fastest, safest route out of the area, that is least affected by floodwater, is to travel generally in a west direction from the site. The route travels along Wallage Lane, and remains dry throughout the whole breach event, meaning dry access/egress is considered to be achievable if the potential site user wanted to leave the site.
- 3.23. The evacuation route meets Turners Hill Road which provides connections to the wider area.

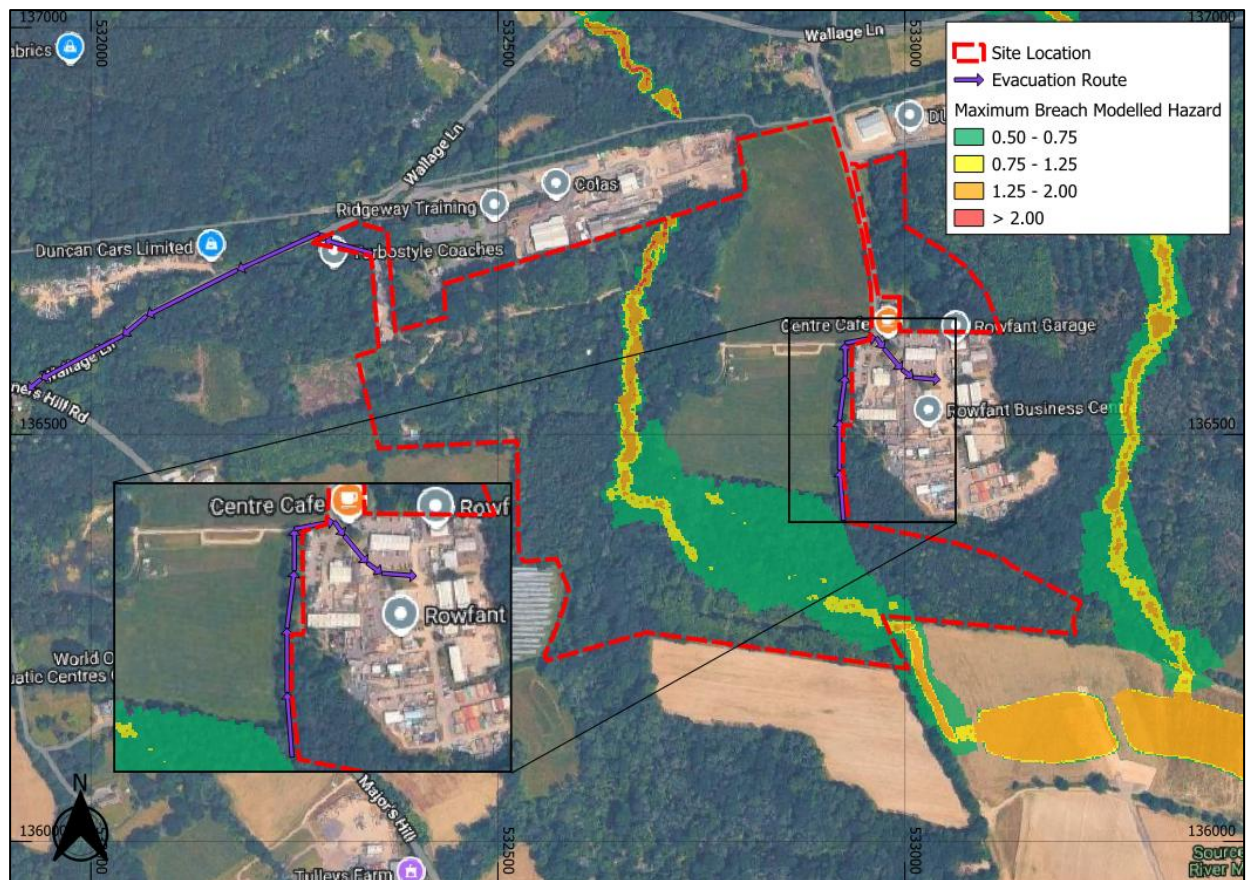
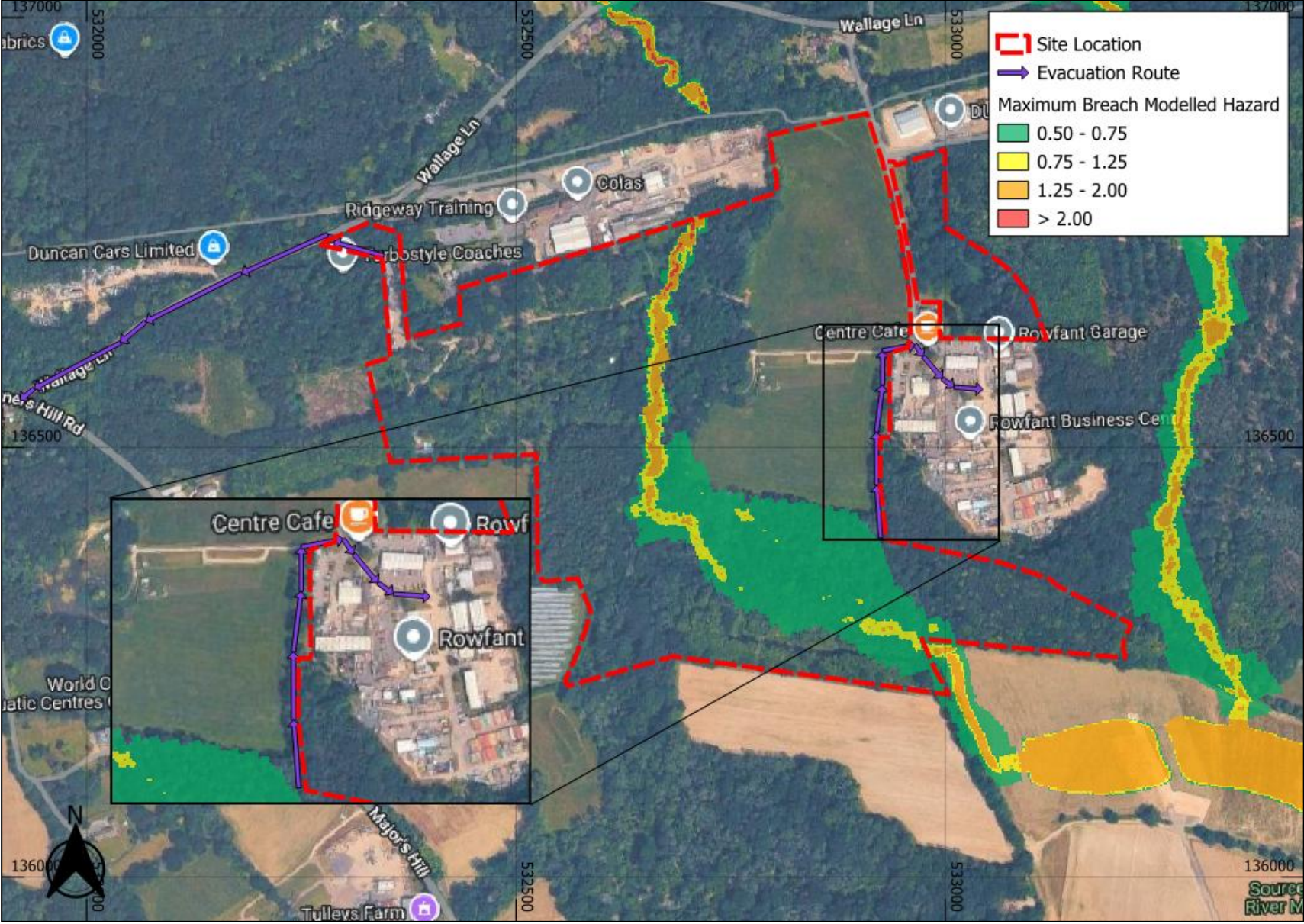


Figure 4: Evacuation Route Overlain Modelled Flood Hazard (Base map from Google Hybrid and data from Aegaea Modelled Breach Outputs)

4. Summary for Site Occupants and Users

Property:	Land on the South-East Side of Wallage Lane, Worth, Crawley																									
Risk summary:	Based on the modelled depth mapping, the maximum flood depths at the site are restricted to the central areas of the site associated with the lower areas at the watercourse with maximum flood depths being recorded in the centre of the northern half of the site (1.31m). It is noted that within the southern part of the site, there is an education facility. The educational facility could experience flood depths up to 0.27m associated with the lower areas at the watercourse. Based on the modelling undertaken, it would take approximately 35mins for the water to arrive at the south of the site. A safe evacuation route is provided for pupils and staff of the educational facility. Given that the educational facility is within the breach extents, prior evacuation is considered required upon receipt of a notification of a breach. A safe evacuation route has been identified.																									
Preparedness:	Recommended evacuation route:																									
Text/Phone Call informing of a rapid drop in water level at the lakes.	- Prepare a flood kit (first aid, medication, torch, warm clothes, wellington boots, long-life food) - Make a list of emergency contacts and consider alternative options for accommodation. - Review FEEP periodically																									
	Notification of breach actions:																									
	The educational facility on-site is affected within the flood depth and extent mapping. The remaining woodland areas on-site are outside the flood extent and depths. Therefore, evacuation is considered to be necessary for the education facility to the south given safe refuge may not be available on site within the buildings. However, for the remaining woodland areas on site, evacuation is not considered necessary and refuge can be sought on-site to the west of the watercourse. The fastest, safest route out of the area for the occupants of the educational facility, that is least affected by floodwater, is to travel generally in a north direction from the site. The route travels along a private footpath situated parallel to the eastern redline boundary, and remains dry throughout the whole breach event, meaning dry access/egress is considered to be achievable if the occupant wanted to leave the site (as shown on Figure 4). Pupils and staff may have to travel through areas identified as having a hazard rating of less than 0.75 – which is considered ‘safe’ in line with the EA Hazard Classification Table (FD2320). If potential site users of the west areas of the site wish to evacuate, the fastest, safest route out of the area, that is least affected by floodwater, is to travel generally in a west direction from the site. The route travels along Wallage Lane, and remains dry throughout the whole breach event, meaning dry access/egress is considered to be achievable if the potential site user wanted to leave the site.	 Refuge is available on site for potential site users to the west of the watercourse. Prior evacuation is recommended for the educational facility with the route providing a safe evacuation. IN AN EMERGENCY, CALL 999. <table><thead><tr><th colspan="2">Emergency Contacts:</th><th colspan="2">Emergency cut-off locations:</th></tr></thead><tbody><tr><td>Electricity provider:</td><td></td><td>Electricity cut-off location:</td><td></td></tr><tr><td>Gas provider:</td><td></td><td>Gas cut-off location:</td><td></td></tr><tr><td>Water Company:</td><td></td><td>Water cut-off location:</td><td></td></tr><tr><td>Insurance Company:</td><td></td><td>Insurance policy number:</td><td></td></tr><tr><td>Managing Agent:</td><td></td><td>Location of Flood Kit:</td><td></td></tr></tbody></table>		Emergency Contacts:		Emergency cut-off locations:		Electricity provider:		Electricity cut-off location:		Gas provider:		Gas cut-off location:		Water Company:		Water cut-off location:		Insurance Company:		Insurance policy number:		Managing Agent:		Location of Flood Kit:
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The emergency services (blue light responders) become the first responders during a flood event. The instruction they give should be followed at all times, even if it contradicts the details of this FEEP report.																										

