

H+H Drainage

Tremayne, Mortimer's Cross, Herefordshire HR6 9TG
Phone: 0845 2008421. Mobile: 07837 628764

Infiltration Testing

The Proposed Community, Commercial & Leisure Development at Hay-on-Wye, HR3 5DS

14th May 2026

Prepared by Alex Taysum-Hunter



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The site is located within the River Wye Catchment. The River Wye is a Special Area of Conservation (SAC). SAC's are amongst the most important and sensitive sites across the European Union and are afforded the highest levels of protection under the Habitat Regulations.

The River Wye SAC is in place to maintain or, where necessary, restore the river to high ecological status, including its largely unmodified and undisturbed physical character, so that all of its special features are able to sustain themselves in the long-term as part of a naturally functioning ecosystem.

Allowing the natural processes of erosion and deposition to operate without undue interference and maintaining or restoring connectivity maintains the physical river habitat, which forms the foundation for this ecosystem. The quality and quantity of water, including natural flow variability, and the quality of adjacent habitats are maintained or restored to a level necessary to maintain the features in favourable condition for the foreseeable future.

The presence of the River Wye SAC and its special wildlife enhances the economic and social values of the area by providing a high-quality environment for ecotourism, outdoor activities and peaceful enjoyment by local people and visitors. The river catchment's functions of controlling flooding and supplying clean water are recognised and promoted through appropriate land management. The river is a focus for education to promote increased understanding of its biodiversity and the essential life support functions of its ecosystems.

As can be seen in the following map, the site lies within the Upper River Wye Sub-Catchment.



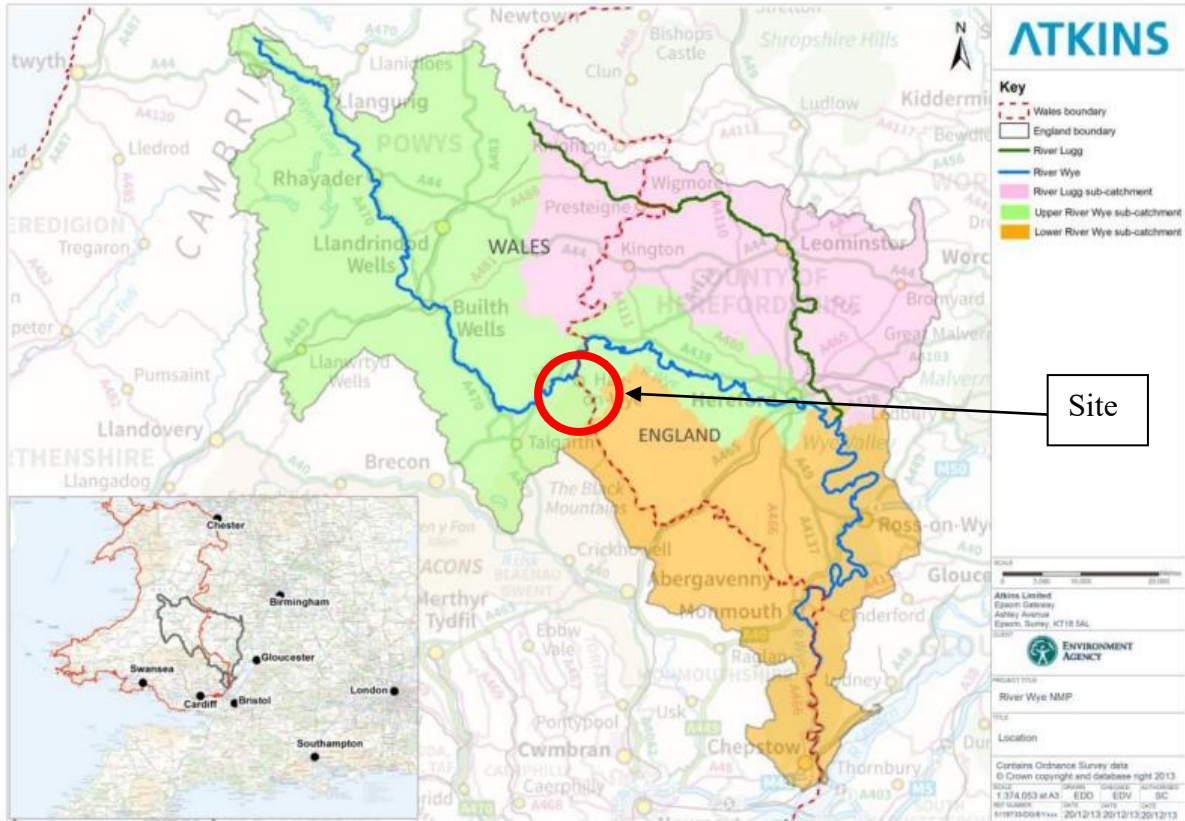
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Site Location and conditions

Adj to Hay & St Mary's Football Ground, Forest Road, Hay-on-Wye HR3 5DS

SO 22921 41819

X (Easting): 322921

Y(Northing): 241819

Latitude: 52.069351

Longitude: -3.1259151

What3words: exclusive.hippy.repelled



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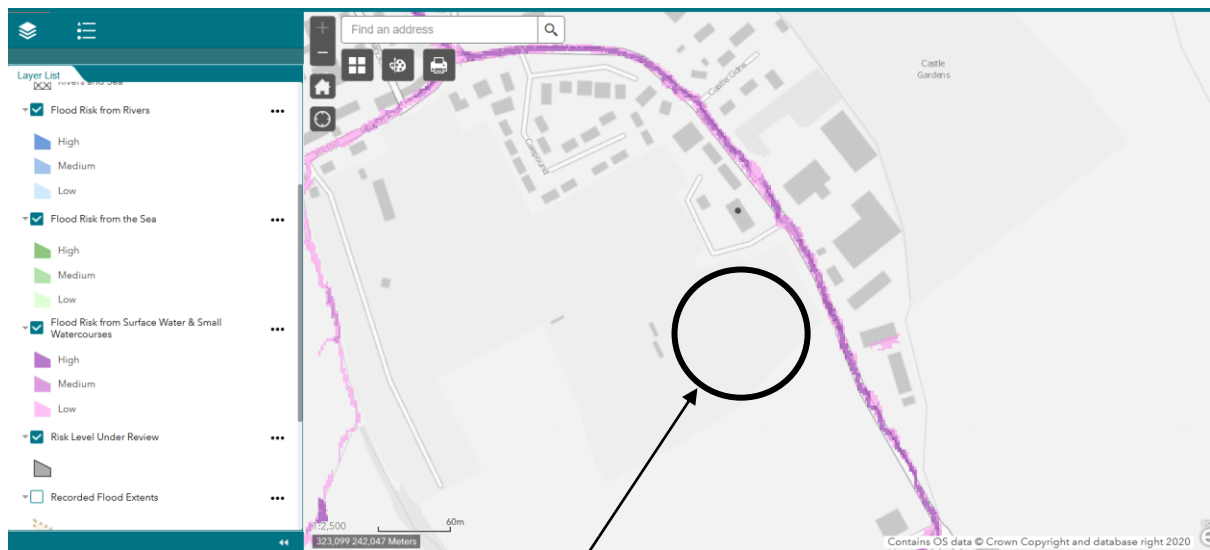
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As can be seen below, there is no surface water flooding or fluvial flooding recorded at this site:



Test Area



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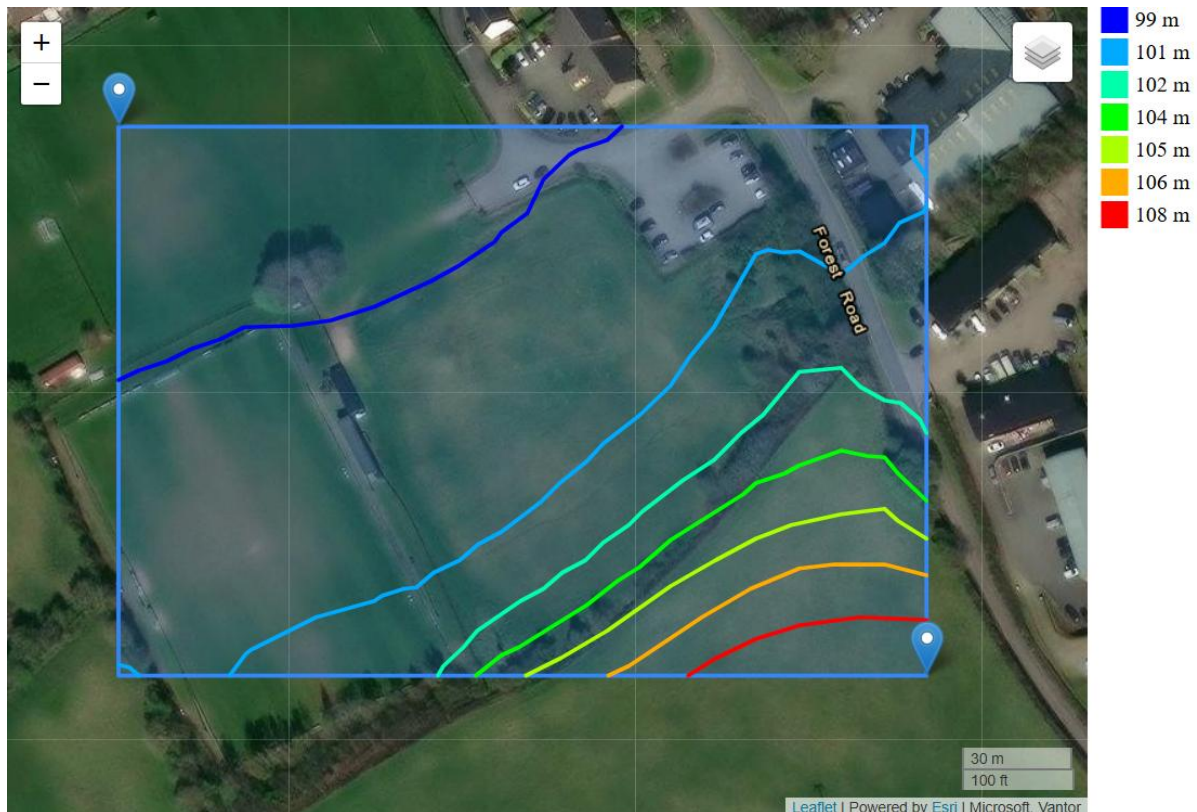
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As can be seen below, the test area is primarily level and the surrounding land falls gently to the northwest.



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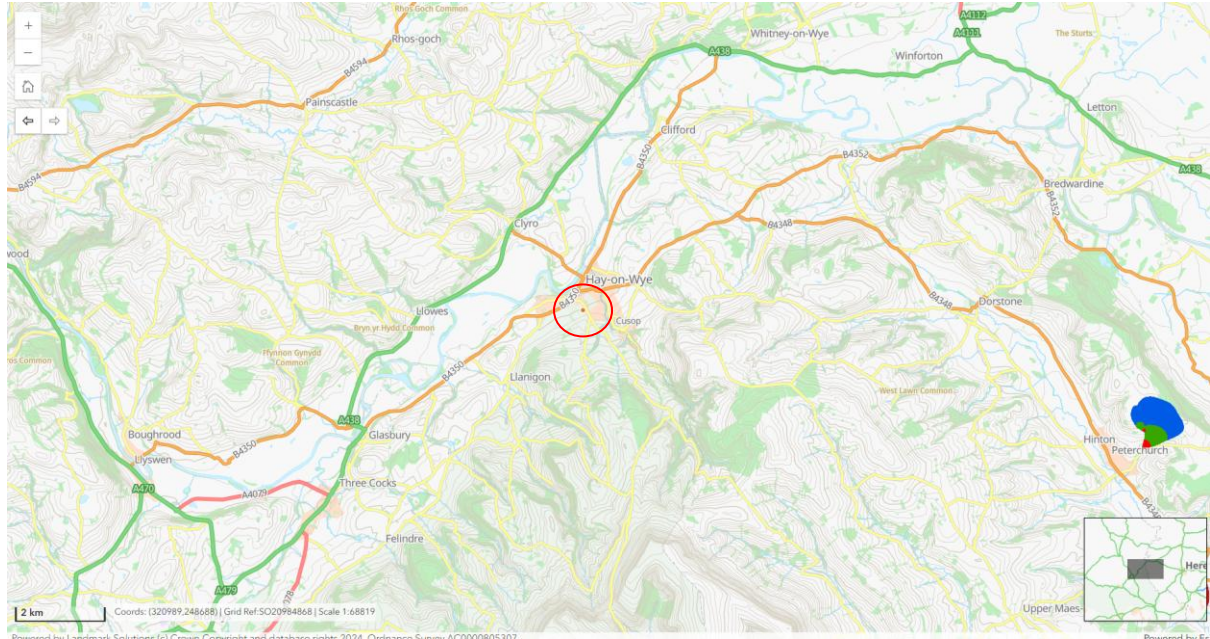
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The flowing map shows that there are no SPZ1 or SPZ2 areas highlighted within 10km of the site.



Designations

Land-Based Designations

Non-statutory

Source Protection Zones merged (England)

- Zone I - Inner Protection Zone
- ▤ Zone I - Subsurface Activity
- Zone II - Outer Protection Zone
- ▤ Zone II - Subsurface Activity
- Zone III - Total Catchment
- ▤ Zone III - Subsurface Activity
- Zone of Special Interest



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Ground testing and on-site investigation

Site investigations were undertaken on the 5th May 2026.

Initially, a ground water level assessment trial hole (GWLA) was excavated to a depth of 2.65m below local ground level.

We can confirm that no ground water was encountered at 2.65m below ground level.

As can be seen below, the GWLA demonstrated that the test area is formed from made-up ground. This made-up ground was found to consist of clay soils, stones, bricks and concrete rubble. This made-up ground was found to be approximately 1.1m deep.

Below the made-up ground, the natural ground was found to be clayish with river stones.

W3W = unusually.slurs.buildings



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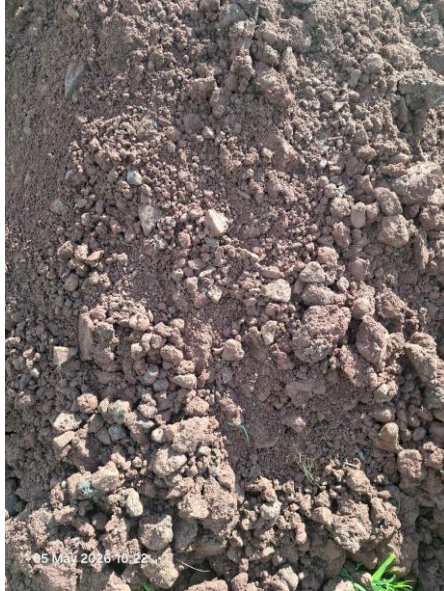
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Percolation tests

No percolation testing was completed at this site.



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BRE Digest 365 Infiltration Tests.

Two infiltration test holes were excavated. These infiltration test holes were excavated in line with BRE Digest 365.

Infiltration test hole 1 (INF1) was excavated to a depth of 1500mm below ground level and was 400mm wide x 1500mm long. W3W = reserving.energetic.blacken



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Phone: 0845 2008421. Mobile: 07837 628764

Site Name: HADSCAL

Date: 05-06/05/2026

Weather conditions: Dry

Hole reference	Hole Depth	Hole Width	Hole Length	Inlet invert		
IFT1	1500mm	400mm	1500mm	mm		
TEST 1		TEST 2		TEST 3		
Time (mins)	Depth to Water	Time (mins)	Depth to Water	Time (mins)	Depth to Water	
0mins (START)	500mm	0mins (START)		0mins (START)		
15mins	510mm	15mins		15mins		
30mins	520mm	30mins		30mins		
45mins	525mm	45mins		45mins		
60mins (1 hour)	530mm	60mins (1 hour)		60mins (1 hour)		
75mins	535mm	75mins		75mins		
90mins	535mm	90mins		90mins		
105mins	540mm	105mins		105mins		
120mins (2 hours)	540mm	120mins (2 hours)		120mins (2 hours)		
135mins	545mm	135mins		135mins		
150mins	545mm	150mins		150mins		
165mins	545mm	165mins		165mins		
180mins (3 hours)	545mm	180mins (3 hours)		180mins (3 hours)		
195mins	550mm	195mins		195mins		
210mins	550mm	210mins		210mins		
225mins	550mm	225mins		225mins		
240mins (4 hours)	550mm	240mins (4 hours)		240mins (4 hours)		
255mins	550mm	255mins		255mins		
270mins	555mm	270mins		270mins		
285mins	555mm	285mins		285mins		
300mins (5 hours)	555mm	300mins (5 hours)		300mins (5 hours)		
315mins	555mm	315mins		315mins		
330mins	555mm	330mins		330mins		
345mins	555mm	345mins		345mins		
360mins (6 hours)	555mm	360mins (6 hours)		360mins (6 hours)		
7 hours		7 hours		7 hours		
8 hours		8 hours		8 hours		
9 hours		9 hours		9 hours		
10 hours		10 hours		10 hours		
11 hours		11 hours		11 hours		
12 hours		12 hours		12 hours		
24 hours	605mm	24 hours		24 hours		



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Infiltration test hole 2 (INF2) was excavated to a depth of 600mm below ground level and was 400mm wide x 1500mm long. W3W = motivations.yield.firebird



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Site Name: HADSCAL

Date: 05-08/05/2026

Weather conditions: Dry

Hole reference	Hole Depth	Hole Width	Hole Length	Inlet invert		
IFT2	600mm	400mm	1500mm	mm		
TEST 1		TEST 2		TEST 3		
Time (mins)	Depth to Water	Time (mins)	Depth to Water	Time (mins)	Depth to Water	
0mins (START)	200mm	0mins (START)	200mm	0mins (START)	200mm	
15mins	220mm	15mins	205mm	15mins		
30mins	230mm	30mins	210mm	30mins	210mm	
45mins	240mm	45mins	215mm	45mins		
60mins (1 hour)	250mm	60mins (1 hour)	220mm	60mins (1 hour)	220mm	
75mins	260mm	75mins	225mm	75mins		
90mins	265mm	90mins	230mm	90mins	230mm	
105mins	270mm	105mins	235mm	105mins		
120mins (2 hours)	275mm	120mins (2 hours)	240mm	120mins (2 hours)	240mm	
135mins	280mm	135mins	245mm	135mins		
150mins	285mm	150mins	245mm	150mins	250mm	
165mins	290mm	165mins	250mm	165mins		
180mins (3 hours)	295mm	180mins (3 hours)	250mm	180mins (3 hours)	260mm	
195mins	300mm	195mins	255mm	195mins		
210mins	305mm	210mins	255mm	210mins	270mm	
225mins	310mm	225mins	260mm	225mins		
240mins (4 hours)	315mm	240mins (4 hours)	260mm	240mins (4 hours)	270mm	
255mins	320mm	255mins	265mm	255mins		
270mins	325mm	270mins	265mm	270mins	270mm	
285mins	330mm	285mins	270mm	285mins		
300mins (5 hours)	330mm	300mins (5 hours)	270mm	300mins (5 hours)	280mm	
315mins	335mm	315mins	275mm	315mins		
330mins	335mm	330mins	275mm	330mins	280mm	
345mins	340mm	345mins	280mm	345mins		
360mins (6 hours)	340mm	360mins (6 hours)	280mm	360mins (6 hours)	280mm	
7 hours		7 hours		7 hours		
8 hours		8 hours		8 hours		
9 hours		9 hours		9 hours		
10 hours		10 hours		10 hours		
11 hours		11 hours		11 hours		
12 hours		12 hours		12 hours		
22 hours	500mm	24 hours	460mm	24 hours	440mm	



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Test Hole Locations



Grid Reference	X (Eastings)	Y (Northings)	Latitude	Longitude	Description (Click to Edit)
SO 22910 41853	322910	241853	52.069656	-3.126075	INF1 (1500mm deep)
SO 22917 41846	322917	241846	52.069593	-3.1259690	INF2 (600mm deep)
SO 22899 41847	322899	241847	52.069600	-3.1262332	GWLA



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On-Site Observations

The following photographs show an existing surface water inspection chamber located at W3W epidemics.riper.eyelash

This surface water drain appears to receive surface water from the doctor's surgery carpark and the access road.



This drain has not been inspected or traced.



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There is a ditch along the northwest boundary of the existing playing field. This ditch appears to be in place to defend the properties to the northwest from run-off from the playing fields, the site and the fields to the southeast.

The line of this ditch is shown on the following map.



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The ditch discharges to an existing 450mm diameter concrete pipe culvert.



This pipe / culvert has not been inspected or traced.



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Grid Reference	X (Eastings)	Y (Northings)	Latitude	Longitude	Description (Click to Edit)
SO 22861 41959	322861	241959	52.070609	-3.1268116	450mm Dia Culvert
SO 22893 41908	322893	241908	52.070147	-3.1263321	Surface Water MH



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