



Harborough District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Table

Site details

Site Code	8247: Proposed Allocation K1
Address	Land west of Warwick Road, Kibworth
Area	76.4 hectares
Current land use	Greenfield, agricultural
Proposed land use	Residential
Flood Risk	More vulnerable
Vulnerability	

Sources of flood risk

	The site is located along Warwick Road, west of Kibworth, within the centre
	of the Harborough District.
Location of the site	The site is located approximately 500m east of the Grand Union Canal and
	800m east of an unnamed tributary of the River Sence.
	Another, smaller unnamed ordinary watercourse also flows in a northerly
	direction from the north of the site and under Wistow Road before joining
	the Burton Brook.
	The Environment Agency's (EA) 1m resolution 2022 Composite LiDAR
Topography	shows that the topography of the site declines from approximately 124m
	AOD at the south to approximately 103m AOD at the north.
	The site is located near to the Grand Union Canal and two unnamed
	ordinary watercourses. Mapping suggests that a drainage ditch is culverted
Existing drainage	under Wistow Road at the northern corner of the site joining Burton Brook
features	approximately 530m northwest of the site. It is also likely drainage ditches
	are located within the fields and an investigation should be undertaken prior
	to development.
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EA Flood Mon for Dianning for Divers and Sec
EA Flood Map for Planning for Rivers and Sea.
Data analysis:
Details of the sites location within each Flood Zone are provided within the
SFRA Site Screening Appendix.
Flood characteristics:
The site is entirely located within Flood Zone 1. Flood Zone 1 represents
areas which have less than 1 in 1000 (0.1%) chance of river flooding in a
given year.
The site is at very low risk of fluvial flooding and there are no significant
watercourses within the vicinity of the site that could cause a risk of
flooding.
Available data and mapping:
The EA's Risk of Flooding from Surface Water dataset for the 3.3%, 1%
and 0.1% AEP events.
Data analysis:
3.3% AEP (1 in 30 year) event:
Proportion is 3%
Max Depth is 0.51m
Max Velocity is 1.62m/s
Max Hazard is 1.38, Danger to Most
Mean Depth is 0.12m
Mean Velocity is 0.72m/s
Mean Hazard is 0.66, Caution
1% AEP (1 in 100 year event):
Proportion is 6%
Max Depth is 0.58m
Max Velocity is 1.97m/s



Max Hazard is 1.59, Danger to Most

Mean Depth is 0.13m Mean Velocity is 0.84m/s Mean Hazard is 0.7, Caution

0.1% AEP (1 in 1000 year) event:

Proportion is 15% Max Depth is 0.81m Max Velocity is 2.81m/s Max Hazard is 2.24, Danger to Most

Mean Depth is 0.17m Mean Velocity is 1.13m/s Mean Hazard is 0.9, Danger to Some

Flood characteristics:

The site is shown to be at risk of flooding from all three surface water events across the north and centre of the site, ranging from 3% of the site affected within the 3.3% AEP event to 15% within the 0.1% AEP event.

During the 3.3% AEP event flooding occurs along the northern site boundary, with localised flooding towards the centre and south of the site.

This increases slightly within the 1% AEP event across the centre and south of the site connecting the majority of localised flooding areas. During the 0.1% AEP event a flow path connects all localised flooding, crossing from the north of the site to the southwest. It should be noted that this flow path bisects the site across the centre and has potential to cause access and egress issues. The most significant flood depths during the 0.1% AEP event are located within the northeast of the site. Across the site, there is an average depth and velocity of 0.17m and 1.13m/s respectively. The mean hazard rating is shown to be a 'Danger to Some'.



	HARBOROUGH
	Available data and mapping:
	EA's Risk of Flooding from Surface Water dataset for the 3.3% and 1%
	AEP events with both upper and central climate change scenarios.
	Management Catchment:
	The site is located within the Soar Management Catchment. The EA
	guidance recommends that the Upper End allowance is considered for both
	the 3.3% and 1% AEPs for the 2070's epoch, unless the allowance for the
	2050's epoch is higher, in which case this should be used. This is
	appropriate for development with a lifetime beyond 2100. The
	recommended uplift on peak rainfall intensity for the 3.3% AEP central and
	upper estimates are 25% and 35%, and 25% and 40% for the 1% AEP
	event.
	Data analysis:
	3.3% AEP (1 in 30 year) central climate change event:
Surface water plus	Proportion is 8%
climate change	Max Depth is 0.69m
	Max Velocity is 2.48m/s
	Max Hazard is 1.89, Danger to Most
	Mean Depth is 0.15m
	Mean Velocity is 0.99m/s
	Mean Hazard is 0.79, Danger to Some
	3.3% AEP (1 in 30 year) upper climate change event:
	Proportion is 9%
	Max Depth is 0.72m
	Max Velocity is 2.63m/s
	Max Hazard is 1.99, Danger to Most
	Mean Depth is 0.16m
	Mean Velocity is 1.03m/s





	Mean Hazard is 0.82, Danger to Some
	1% AEP (1 in 100 year) central climate change event:
	Proportion is 13%
	Max Depth is 0.81m
	Max Velocity is 2.85m/s
	Max Hazard is 2.33, Danger to All
	Mean Depth is 0.17m
	Mean Velocity is 1.13m/s
	Mean Hazard is 0.91, Danger to Some
	1% AEP (1 in 100 year) upper climate change event:
	Proportion is 15%
	Max Depth is 0.86m
	Max Velocity is 3.04m/s
	Max Hazard is 2.52, Danger to All
	Mean Depth is 0.17m
	Mean Velocity is 1.16m/s
	Mean Hazard is 0.92, Danger to some
	Flood characteristics:
	The site is shown to be at risk of flooding in all four scenarios with a flow
	path from the north across to the southwest of the site, with depths
	averaging less than 0.17m. The maximum flood depth in the 1% AEP plus
	upper climate change event is shown to be 0.86m within the north of the
	site. The average velocity is shown to be no more than 1.16m/s, with an
	average hazard rating of 'Danger to Some'.
Decenveir	The site is not located in a Wet or Dry day reservoir flooding extent,
Reservoir	according to the EA's reservoir flood mapping.



	Available date and manning.
	Available data and mapping:
	The JBA Groundwater Flood Data Map (GW5) is provided as a 5m
	resolution grid.
Groundwater	
	Flood characteristics:
	The site is located within a zone where there is negligible risk of
	groundwater flooding due to the nature of local geological deposits.
	Sewer flood records from Anglian Water were unavailable and therefore
	cannot be assessed as part of this assessment. It should be noted that this
	site is located near the boundary of the two water company service areas
	and developers should contact both to confirm which would provide
Sewers	sewerage / water services to the site. The risk of sewer flooding should be
Sewers	considered within a site-specific flood risk assessment prior to
	development. The site is located within Anglian Water's Kibworth sewer
	catchment. Detailed information on the risk of sewer flooding is not
	available from Anglian Water's Drainage and Wastewater Management
	Plan.
The ext biotomy	The site is not shown to be located within the EA's Recorded Flood
Flood history	Outlines extent.

Flood risk management infrastructure

Existing defences	The EA's AIMS spatial flood defences dataset shows there are no formal flood defences within the vicinity of the site.
Potential defences	The EA's AIMS spatial flood defences dataset shows that there are no potential defences in or near the site.
Residual risk	The site is at potential residual risk of flooding due to a blockage of the culvert under Wistow Road. The residual risk to the site posed by the culvert, must be considered in a site-specific flood risk assessment. Maintenance arrangements for the culvert will need to be demonstrated.





Emergency planning

Flood warning	The site has not been identified to be located within an EA Flood Warning or Flood Alert Area.
Access and egress	Access and egress from the eastern side of the site should be achievable via Warwick Road during all surface water events, including the 1% AEP plus central and upper end climate change allowance events. Flood depths on the road remain shallow, at less than 0.3m. It should be noted that a surface water flow path bisects the site diagonally and has potential to cause access and egress issues, preventing access and egress to the north/western portions of the site. Safe access and egress is unlikely to be achievable via Wistow Road during the 1% AEP plus upper end event given the depths of flooding to the road in both directions. Alternative access and egress or evacuation plans should therefore be considered within a site-specific flood risk assessment. Developers will need to demonstrate safe access and egress in the 1% AEP surface water event including an allowance for climate change (the design event). It should be noted that raising of access routes must not impede surface water flow paths or lead to an increased risk elsewhere.

Requirements for drainage control and impact mitigation

	Geology and Soils
	The geology consists of:
	Bedrock geology of mudstone, siltstone, limestone and sandstone.
	Diamicton superficial deposits identified within the BGS mapping at
Broad-scale	the proposed development site.
assessment of	The soils on site are predominantly shown to be slightly acid loamy and
possible SuDS	clayey soils with impeded drainage, with a small area along the eastern
	boundary comprising of slowly permeable seasonally wet slightly acid but
	base-rich loamy and clayey soils. This suggests that infiltration may only be
	a viable means of surface water disposal along the eastern boundary.



SuDS

	 JBA Groundwater mapping suggests the site is at 'low risk' of groundwater flooding during a 1% AEP flood event, however infiltration may not always be appropriate. Offsite discharge may therefore be required to discharge surface water runoff during flood events. The infiltration potential of the site should be confirmed through infiltration testing, in line with BRE 365. The site is located within a Nitrate Vulnerable Zone. Therefore, early engagement with the LLFA and the EA is recommended to determine requirements for the site to manage the impact to surrounding watercourses. Consideration of water quality is likely to be of high importance and demonstrated through the use of the Simple Index Approach. The site has not been identified to be located within a historic landfill site or Source Protection Zone. SuDS measures should follow the discharge hierarchy, and if it is proposed to discharge runoff to a watercourse or asset should be confirmed through surveys and the discharge rate agreed with the asset owner. Due to the topography, any surface water not intercepted via infiltration will drain via gravity to the north of the site. It is therefore recommended that the LLFA and the EA are consulted about viable
	discharge locations for surface water from the site and their attenuation potential.
Opportunities for wider sustainability benefits and integrated flood risk management	 Existing flow paths should be retained within the site and incorporated into site design through the use of SuDS / green blue infrastructure. Implementation of SuDS at the site could provide opportunities to deliver multiple benefits including volume control, water quality, amenity and biodiversity, helping meet requirements for the Nitrate Vulnerable Zone. This could provide wider sustainability benefits to the site and surrounding area. Proposals to use SuDS techniques





should be discussed with relevant stakeholders (LPA, LLFA and EA)
at an early stage to understand possible constraints.
 Opportunities to incorporate source control techniques such as
green roofs, permeable surfaces and rainwater harvesting must be
considered in the design of the site.
 SuDS are to be designed so that they are easy to maintain, and it
should be set out who will maintain the system, how the
maintenance will be funded and should be supported by an
appropriately detailed maintenance and operation manual.
 SuDS should be designed with a holistic approach, combining
ecology, landscape and drainage requirements specific to the site,
and incorporating Biodiversity Net Gain requirements.
• Opportunities to incorporate filtration techniques such as filter strips,
filter drains and bioretention areas must be considered.
Consideration should be made to the existing condition of receiving
waterbodies and their Water Framework Directive objectives for
water quality. The use of multistage SuDS treatment will improve
water quality of surface water runoff discharged from the site and
reduce the impact on receiving water bodies.
 The potential to utilise conveyance features such as swales to
intercept and convey surface water runoff should be considered.
Conveyance features should be located on common land or public
open space to facilitate ease of access.
 SuDS should be designed to utilise existing surface water flows
where possible and in line with Leicestershire County Council's
SuDS Guidance

NPPF and planning implications

Exception Test	The Local Authority will need to confirm that the Sequential Test has been
requirements	carried out in line with national guidelines. The Sequential Test will need to
	be passed before the Exception Test is applied.
(Local Authority	
Considerations)	



	The NPPF classifies residential development as "More Vulnerable", this
	vulnerability classification is taken into consideration for the Exception Test.
	The site, is entirely located within Flood Zone 1, therefore it is not required
	to pass the Exception Test.
	However, given the significant risk of surface water flooding to the site,
	Harborough District Council should carefully weigh the benefits of
	development against the risk and satisfy themselves that residents will be
	safe for the lifetime of the development. Detailed surface water flood
	modelling should be undertaken during a site-specific flood risk
	assessment.
	Flood Risk Assessment:
	The Level 1 SFRA has more guidance on this section and any relevant
	policies and information applicable to development within Harborough
	District Council.
	• A site-specific flood risk assessment should be prepared for the site,
	supported by detailed surface water modelling, to demonstrate that
	site users will be safe for the lifetime of the development,
	development of the site will not increase risk elsewhere, and any
Requirements and	residual risk can be safely managed.
guidance for site-	Given the surface water risk to the site, a site drainage strategy
specific Flood Risk	should be prepared alongside the flood risk assessment.
Assessment	Consultation with Harborough District Council, Leicestershire County
	Council, Canal Rivers Trust and the EA should be undertaken at an
(Developer considerations)	early stage.
	 Developers should consult with Severn Trent Water and Anglian
	Water to ensure that the development aims to help achieve the
	targets of their Drainage and Wastewater Management Plans.
	 Development plans should use the Level 1 SFRA for Harborough
	District Council, as well as the Local Flood Risk Management
	Strategies to identify cumulative flood risk issues. It should also
	promote an integrated approach to water management.
	promote an integrated approach to water management.

 Guidance for site design and making development safe: The developer will need to show, through a site-specific flood risk assessment, that future users of the development will not be placed in danger from flood hazards throughout its lifetime. It is for the applicant to show that the development meets the objectives of the NPPF's policy on flood risk. For example, how the operation of any mitigation measures can be safeguarded and maintained effectively throughout the lifetime of the development. (Para 048 Flood Risk and Coastal Change PPG). The risk from surface water flow routes should be quantified as part of a site-specific flood risk assessment, including a drainage strategy, so runoff magnitudes from the development are not increased by development across any ephemeral surface water flow routes. A drainage strategy should help inform site layout and design to ensure runoff rates do not exceed greenfield rates. Arrangements for safe access and egress to the west/northern side of the site are unlikely to be achievable during the 1% AEP event, plus an allowance for climate change. Therefore access and egress needs to be considered further within a site-specific flood risk assessment for the surface water events with an appropriate allowance for climate change, using the depth, velocity, and hazard outputs. 	
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	assessment for the surface water events with an appropriate
outputs.	allowance for climate change, using the depth, velocity, and hazard
	outputs.

Key messages

The site is generally identified to be at low risk, however there are significant surface water flow paths present on the site. Development is likely to be able to progress if:

- A site-specific flood risk assessment, supported by detailed surface water modelling, is undertaken to assess the risk of surface water flooding in relation to the proposed development, and the provision of safe access and egress routes. Developers will need to demonstrate safe access and egress in the 1% AEP + climate change surface water event.
- A carefully considered and integrated flood resilient and sustainable drainage design is put forward, including a site-specific Surface Water Drainage Strategy, and SuDS maintenance and management plan and supported by detailed modelling (as above), with development to





be steered away from the areas identified to be at highest risk of surface water flooding within the site. This is to be in line with the sequential approach to site layout.

- Infiltration rates are assessed on site as part of a drainage strategy.
- There is early engagement with the LLFA and the EA on the proposed SuDS measures and infiltration rate to discuss requirements on the site meeting relevant conditions due to the sites location within a Nitrate Vulnerable Zone.

Mapping information

The key datasets used to make planning recommendations for this site were the EA's Flood Map for Planning and the EA's Risk of Flooding from Surface Water map. More details regarding data used for this assessment can be found below.

Flood Zones	Flood Zones 2 and 3 have been taken from the EA's Flood Map for
	Planning mapping.
Climate change	The latest climate change allowances (updated May 2022) have been
	applied to the EA's RoFSW dataset.
Surface water	The EA's Risk of Flooding from Surface Water (RoFSW) map has been
	used to define areas at risk from surface water flooding.
Surface water depth,	The EA's Risk of Flooding from Surface Water (RoFSW) has been used to
velocity and hazard	define areas at risk from surface water flooding.
mapping	